COMMENCEMENT
CEREMONY 2013

May Twentieth
Two Thousand and Thirteen
Prudential Center
Newark, New Jersey
Welcome

Welcome to the 2013 commencement ceremony of New Jersey Institute of Technology. The university extends heartfelt congratulations to its graduates on their accomplishment and commends the families and friends who have helped them reach this milestone of academic achievement.

By definition, commencement means “to begin to be.” As the members of the Class of 2013 begin to be, we wish them every success, confident that they have been well prepared for a life of contribution in the 21st century, to meet its challenges and embrace its myriad opportunities.

Well done!

Information in this program is compiled prior to final certification of candidates for graduation. Only the diploma and certified transcript of each student are official documents which attest to the granting of a degree.
TO OUR GUESTS

Commencement, an age-old tradition, is a joyous yet solemn event signifying years of study and sacrifice.

To preserve the appropriateness of this august occasion —

The ceremony is not complete until the faculty, honored guests, and students recess. As a show of respect, guests are asked to remain standing at their seats until the recessional has ended.

There will be no standing in the aisles at any time during the ceremony.

Guests are not permitted on the arena floor.

Any attendee requiring assistance should contact uniformed Prudential Center personnel.

Members of the audience are asked to turn off cell phones and other electronic devices.

The university will be recording the day’s events.

To view photos online, visit:
http://commencement.njit.edu

Your cooperation is greatly appreciated.
MONDAY, MAY 20, 2013 • 9:00 A.M.

COMMENCEMENT EXERCISES

UNIVERSITY CEREMONY

Class Crier                          Vanessa Casteblanco ’13
Senior Class President

Grand Marshal and Mace Bearer        Jack Gentul, Dean of Students
President’s Medal for Academic
Excellence Recipients
Processional Gonfalon Carriers
Candidates for Baccalaureate Degrees
Candidates for Master’s Degrees
Candidates for Doctoral Degrees
Distinguished Faculty
Golden Highlanders
Bagpiper
Honored Guests
University Officials
Presidential Party
AFROTC Detachment 490 Color Guard

Presiding                          Joel S. Bloom, President
Presentation of Colors             AFROTC
The National Anthem                Newark Boys Chorus
Greetings                          Joel S. Bloom, President
Speaker                            Joseph G. Stanley ’78, ’85, President
                                  NJIT Alumni Association
Speaker                            Vanessa Casteblanco ‘13
                                  Senior Class President

Listing of the Candidates for Doctoral Degrees begins on page 11.
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<td>Lieutenant General Ellen M. Pawlikowski '78 Space and Missile Systems Center United States Air Force</td>
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<td>Carlos Dominguez Senior Vice President, Office of the Chairman of the Board and Chief Executive Officer Cisco Systems, Inc.</td>
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<td>Carlos Dominguez Senior Vice President, Office of the Chairman of the Board and Chief Executive Officer Cisco Systems, Inc.</td>
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<td>Fadi P. Deek Interim Provost and Senior Vice President for Academic Affairs</td>
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Listing of the Albert Dorman Honors College Scholars appears on page 58.
Listing of Candidates graduating with Honors Designations appears on page 60.
Listing of Veterans who served in the Armed Forces appears on page 64.
Presentation of Candidates for Baccalaureate Degrees and Master’s Degrees

Newark College of Engineering       Basil Baltzis, Interim Dean
College of Architecture and Design  Urs P. Gauchat, Dean
College of Science and Liberal Arts Charles Brooks, Assistant to the Dean
School of Management                Pius J. Egbelu, Dean
College of Computing Sciences       James Geller, Interim Dean

Conferring of Degrees                Kathleen Wielkopolski, Chair
                                      Board of Trustees

Alma Mater

Recessional
HONORARY DEGREES

By its charter, New Jersey Institute of Technology is empowered to confer honorary degrees upon individuals of distinguished achievement in recognition of their personal and professional accomplishments and their contributions to society.
THE DEGREE OF DOCTOR OF SCIENCE, HONORIS CAUSA

Presented to

EDWARD CRUZ ‘63

PRINCIPAL

HOP BROOK PROPERTIES, LLC

In addition to the values instilled in him at an early age, Ed Cruz attributes his success to the education he received at Newark College of Engineering and the good fortune of surrounding himself with extraordinarily talented and dedicated people, most of whom like him also received their educations at Newark College of Engineering or New Jersey Institute of Technology. One of the first people Cruz met when he began at NCE in the fall of 1959 was Mal Simon, the soccer coach, who became a mentor and a lifelong friend. Cruz played on his soccer team for four years, which won the 1961 NAIA national championship and during this time amassed a record 22 consecutive wins. At NCE, Cruz was a member of Chi Epsilon, the Civil Engineering honor society; in his junior and senior years and of Sigma Pi, the social fraternity, for three years. He graduated with a BSCE in 1963.

After college, Cruz immediately went to work at his father’s company, Cruz Construction, which was founded in 1951 and by 1963 was establishing a name in the utilities construction business. In 1968, he received his Professional Engineers license in New Jersey. From 1974 to 1984, he headed the company with his cousin Evaristo as they took turns doing estimating, project management and payroll; during that time, the company expanded its operations into seven northeastern states from Delaware to New Hampshire. By 1982, Cruz Construction Co. had attained the enviable listing by ENR as one of the Top 400 U.S. construction companies. In the early 1980’s, the company’s success culminated with the completion of one of the largest transportation projects for the Massachusetts Bay Transportation Authority, a section of its Northeast Corridor Rail Project through Jamaica Plain, including the Green Street Station. In 1984, after completion of the MBTA project and with the company at its peak, Cruz and his cousin founded E.E. Cruz & Company, operating in New Jersey and New York City. The company soon became a leader in the heavy construction marketplace with a team that has been the envy of the industry. Major initial projects included the bridge widening of Interstate Route 287 through Middlesex County, New Jersey, and the 25-block reconstruction of Columbus Avenue in New York City. Through the late 1980’s and 1990’s, E.E. Cruz & Company continued its steady growth with a management team noted for its technical expertise and hands-on know-how, many of whom came from NJIT.

The growth of the company at the turn of the millennium brought more opportunities both in volume of work and complexity and required an even more technically oriented workforce. By 1998, Cruz and his cousin embarked on a new project, the founding of a commercial bank to serve the ethnic Ironbound community of Newark. The Ironbound Bank proved a success and within a short time expanded to four operating branches serving Elizabeth, Union, and Newark. The bank continues to operate successfully today under the banner of New York Community Bank.

The events of September 11, 2001 brought unexpected challenges to E.E. Cruz & Company. Many of its employees volunteered for the initial cleanup and the company went on to undertake some of the first rebuilding contracts, including the securing of the perimeter slurry walls and later on the foundations and structural elements of the 9/11 Memorial. In 2008, the company obtained its largest contract to date—the construction of a section of the Second Avenue Subway for the Metropolitan Transportation Authority—and has since obtained a second major contract from the MTA at Second Avenue.

In his early career, Cruz served as president of the NJ Utility Contractors Association and soon after as president of the National Utility Contractors Association (NUCA) in DC, primarily promoting the Federal Clean Water Act. Later, as they established themselves in the New York City market, the company joined the General Contractors Association of New York City and Cruz came to serve as its president. In 1978, he received NUCA’s Ditch-digger of the Year Award, its highest honor, and in 1987, he was accepted as a member of The Moles, an association of contractors and engineers from all corners of the United States. In 2002, he was elected president of The Moles and on January 25, 2006, he received its highest honor given annually to a Moles member for outstanding achievement in construction. Cruz also was the recipient of the Engineer/Constructor of the Year Award from the Professional Engineers in Construction and was honored with NJIT’s Edward E. Weston Award in 1983. Helping to build and rebuild the J. Malcolm Simon soccer stadium was a labor of love, as is providing scholarships to worthy students not only at NJIT but also in the Ironbound community, and supporting NJITC with its community-centered programs and helping the Ironbound Boys and Girls Clubs with its fundraisers.

By 2010, E.E. Cruz & Company billings had also put it into the ranks of the top 400 construction companies in the U.S. and with a footprint worldwide in the fields of heavy construction, mining, and concessions, through its subsidiaries in the U.S., Turner Construction and Flatiron Construction, and continues to operate as a division of Flatiron. The management team of E.E. Cruz remains in place and continues intact with Cruz’s retirement as chief executive officer at the beginning of 2013, after 50 successful years in the industry.

In recognition of his outstanding career as a businessman and community leader, New Jersey Institute of Technology is pleased to confer the degree of Doctor of Science, honoris causa, upon Edward Cruz.
THE DEGREE OF DOCTOR OF SCIENCE, HONORIS CAUSA
Presented to
LIEUTENANT GENERAL ELLEN M. PAWLIKOWSKI '78
SPACE AND MISSILE SYSTEMS CENTER
UNITED STATES AIR FORCE

Lieutenant General Ellen M. Pawlikowski is the Commander, Space and Missile Systems Center, Air Force Space Command, Los Angeles Air Force Base, California. She is responsible for more than 5,000 employees nationwide and an annual budget of $10 billion. As the Air Force Program Executive Officer for Space, General Pawlikowski manages the research, design, development, acquisition, and sustainment of satellites and the associated command and control systems. Her extensive portfolio includes military satellite communication, missile warning, navigation and timing, space-based weather, space launch and test ranges, certification for launch, space superiority, responsive space and other emerging evolutionary space programs.

General Pawlikowski entered the Air Force in 1978 through the ROTC program at New Jersey Institute of Technology. She then attended the University of California at Berkeley and received a doctorate of philosophy in chemical engineering in December 1981, entering active duty at McClellan AFB, California, in April 1982.

General Pawlikowski's career has spanned a wide variety of technical management, leadership and staff positions including command at the wing and center levels. She has served as director of the Acquisition Management Office for the Assistant to the Secretary of Defense for Atomic Energy and as deputy assistant to the Secretary of Defense for Counterproliferation, Office of the Secretary of Defense. She has also served as program director of the Airborne Laser Program; commander of the Military Satellite Communications Systems Wing; vice commander of the Space and Missile Systems Center; deputy director of the National Reconnaissance Office; and most recently as commander of the Air Force Research Laboratory.

Her major awards and decorations include the Defense Superior Service Medal with two oak leaf clusters; the Legion of Merit; the Defense Meritorious Service Medal; the Meritorious Service Medal with two oak leaf clusters; the Air Force Commendation Medal with oak leaf cluster; the Air Force Achievement Medal; and the Air Force Individual Recognition Ribbon.

In recognition of her outstanding career with the United States Air Force, New Jersey Institute of Technology is pleased to confer the degree of Doctor of Science, honoris causa, upon Lieutenant General Ellen Pawlikowski.
THE DEGREE OF DOCTOR OF HUMANE LETTERS, HONORIS CAUSA
Presented to
CARLOS DOMINGUEZ
SENIOR VICE PRESIDENT, OFFICE OF THE CHAIRMAN OF THE BOARD AND
CHIEF EXECUTIVE OFFICER
CISCO SYSTEMS, INC.

Carlos Dominguez is a senior vice president in Cisco’s Office of the Chairman of the Board and Chief Executive Officer, under John Chambers. His close relationships with worldwide communications providers, including cable, mobile operators and content providers, give him a unique perspective on how the Internet is changing, and how technology and trends such as video and social networking are impacting our lives at work and at home.

Dominguez has been with Cisco since 1992. He has played a key role in multiple segments of the company’s business and most recently led its service provider business. From 2004 to 2008, he led Cisco’s Worldwide Service Provider Operations group, playing a key role in building the strategy for the business and doubling service provider sales from $3.7 billion to $7.7 billion. Service providers now represent approximately 46 percent of Cisco’s overall business.

Before becoming a senior vice president, Dominguez was vice president for U.S. Service Provider Sales, leading the sales teams for all U.S. communications providers. He grew the business from $500 million to over $2.5 billion. Prior to that, he led Cisco’s enterprise line of business in the northeastern United States and established Cisco in a number of strategic markets such as financial services in New York City, media, government and pharmaceuticals.

Prior to joining Cisco, Dominguez held management positions at Timeplex, Inc. in Woodcliff Lake, New Jersey, and at New Jersey Bell/Bell Atlanticcom in Newark, New Jersey. Recently, he was named one of the top 50 Hispanic executives in the United States by Hispanic Engineering and Information Technology magazine. He serves on the Board of Directors of Communities in Schools of New Jersey, a nonprofit organization dedicated to keeping high-risk children in school; the National Action Council for Minorities in Engineering (NACME); and the YMCA of Greater New York. Dominguez was born in Cuba and attended the University of Puerto Rico in Mayaguez.

In recognition of his exceptional achievements, as well as his contributions to the Marketing and Branding Committee as a member of the NJIT Board of Overseers, New Jersey Institute of Technology is pleased to confer the degree of Doctor of Humane Letters, honoris causa, upon Carlos Dominguez.
THE HASHIMOTO PRIZE

Presented to

BEHZAD AHMADI ’13
AMRITA BANERJEE ’06, ’13

Over a distinguished lifetime, Kazuo Hashimoto garnered more than 1000 patents and applications related to his invention of the telephone answering machine and other technical devices in electronics and telecommunications. One hundred of these were awarded in the United States alone. He was a recipient of Japan’s Medal of Honor, the Yellow Ribbon, and was one of the select individuals in his country esteemed as a Living National Treasure.

New Jersey Institute of Technology, in recognition of his extraordinary body of creative work and his encouragement of invention, awarded him the degree of Doctor of Science, *honoris causa*, at these ceremonies in 1994.

In May of 1995, the Hashimoto Endowment was established at NJIT through the generosity and vision of Dr. Hashimoto who found this university to provide an environment in which applied research and scholarship flourish.

A key element of the endowment’s purpose is the annual award of the Hashimoto Prize to a doctoral candidate in electrical or computer engineering who has demonstrated high achievement and promise in the field.

New Jersey Institute of Technology is proud to announce the recipients of the Hashimoto Prize are Behzad Ahmadi and Amrita Banerjee, outstanding scholars who have earned the degree of Doctor of Philosophy through distinguished scholarship and research in electrical and computer engineering.
**CANDIDATES FOR THE DEGREE OF**

**DOCTOR OF PHILOSOPHY**

**APPLIED PHYSICS**

*(Degree conferred jointly by NJIT and Rutgers-Newark, Newark, New Jersey)*

**Dongguo Chen**  
BS Applied Physics, Nanjing University of Science and Technology, Nanjing, People's Republic of China  
Dissertation:  
*Mechanical, Electronic and Optical Properties of Multi-Ternary Semiconductor Alloys*  
Advisor:  
*Nuggehalli M. Ravindra, PhD*

*Debraj Guhabiswas*  
BS Polymer Science and Chemical Technology, Delhi College of Engineering, New Delhi, India  
MS Materials Science and Engineering, New Jersey Institute of Technology, Newark, New Jersey  
Dissertation:  
*Extension to PV Optics to Include Front Electrode Design: A Ray Trace Optical Modeling Package for Photovoltaic Cell and Module Design*  
Advisors:  
*Nuggehalli M. Ravindra, PhD*  
*Bhushan Sopori, PhD*

**Poonam R. Kharangarh**  
BS Applied Physics, Kurukshetra University, Haryana, India  
MS Applied Physics, Kurukshetra University, Haryana, India  
Dissertation:  
*Study of Deep Level Defects of N+ -CdS/P-CdTe Solar Cells*  
Advisors:  
*Ken K. Chin, PhD*  
*George E. Georgiou, PhD*

† **Shamugamurthy Lakshmana**  
MS Physics, Stevens Institute of Technology, Hoboken, New Jersey  
MS Plasma Physics, Bharathiar University, Coimbatore, Tamilnadu, India  
Dissertation:  
*Novel Method for Nanoelectronics*  
Advisors:  
*Reginald C. Farrow, PhD*  
*Gordon A. Thomas, PhD*

**Kyungguk Min**  
BS Astronomy and Space Science, Chungnam National University, South Korea  
Dissertation:  
*A Statistical Study of Plasma Waves and Energetic Particles in the Outer Magnetosphere*  
Advisors:  
*Andrew J. Gerrard, PhD*  
*Jeongwoo Lee, PhD*

† — August 2012 graduates  
* — January 2013 graduates
Basnyat Prakash
BS Applied Physics, Tribhuvan University, Kathmandu, Nepal
MS Physics, Tribhuvan University, Kathmandu, Nepal
MS Applied Physics, Southern Illinois University, Carbondale, Illinois
Dissertation:
Investigations into B-O Defect Formation-Dissociation in CZ-Silicon and their Effects on Solar Cell Performance
Advisors:
Nuggehalli M. Ravindra, PhD
Bhushan Sopori, PhD

Tsezar F. Seman
BS Applied Mathematics, New Jersey Institute of Technology, Newark, New Jersey
MS Applied Mathematics, New Jersey Institute of Technology, Newark, New Jersey
Dissertation:
Theoretical Studies of Structural and Electronic Properties in Transition Metal Oxides
Advisor:
Keun Hyuk Ahn, PhD

BIOLOGY
(Degree conferred jointly by NJIT and Rutgers-Newark, Newark, New Jersey)
* Nischal K. Padala
BS Biology, Rutgers, State University of New Jersey, Newark, New Jersey
Dissertation:
Astrocytes Modulate Microglial Phenotype and Dendritic Cell-Like Properties
Advisor:
Gene Miller Jonakait, PhD

BIOMEDICAL ENGINEERING
(Degree conferred jointly by NJIT and UMDNJ, Newark, New Jersey)
* Ammar Abdo
BS Biomedical Engineering, Hashemite University, Zarqa, Jordan
MS Biomedical Engineering, New Jersey Institute of Technology, Newark, New Jersey
Dissertation:
Feasibility of Neural Stimulation with Floating Light Activated Micro-Electrical Stimulators
Advisor:
Mesut Sahin, PhD

* Yelda Alkan
BS Electrical and Electronic Engineering, Yeditepe University, Istanbul, Turkey
MS Biomedical Engineering, New Jersey Institute of Technology, Newark, New Jersey
Dissertation:
Quantification of Neural Substrates of Vergence System via FMRI
Advisors:
Tara L. Alvarez, PhD
Bharat B. Biswal, PhD
* Xianhong Feng  
BS Biology Engineering, Sichuan University, Sichuan, People's Republic of China  
MS Biomedical Engineering, New Jersey Institute of Technology, Newark, New Jersey  
Dissertation:  
Sugar Based Chemicals including Isosorbide and its Isomers for Biomedical Applications  
Advisors:  
Treena L. Arinzeh, PhD  
Michael Jaffe, PhD 

Prabhjot Saini  
BS Biomedical Engineering, New Jersey Institute of Technology, Newark, New Jersey  
Dissertation:  
Isosorbide Based Polymers: Liquid Crystal Polymers, Biodegradable Polymers and Hydrogels  
Advisors:  
Treena L. Arinzeh, PhD  
Michael Jaffe, PhD 

* Mevan Siriw ardane  
BS Biomedical Engineering, Louisiana Tech University, Ruston, Louisiana  
MS Biomedical Engineering, New Jersey Institute of Technology, Newark, New Jersey  
Dissertation:  
Fabrication and Evaluation of a Collagen-Based Fiber-Gel Three-Dimensional Construct for Peripheral Nerve Repair  
Advisor:  
Bryan J. Pfister, PhD 

CHEMICAL ENGINEERING  

Nonjaros Chomcharn  
BS Pharmaceutical Science, Chulalongkorn University, Bangkok, Thailand  
MS Pharmaceutical Engineering, New Jersey Institute of Technology, Newark, New Jersey  
Dissertation:  
The Effect of Nanoclays on the Properties of Aspirin Modified Enteric Polymer Prepared by Hot-Melt Mixing  
Advisor: 
Marino Xanthos, PhD 

* Xi Han  
BS Chemical Engineering and Technology, Tianjin University, Tianjin, People's Republic of China  
Dissertation:  
Particle Engineering via Surface Modification during Micronization for Pharmaceutical Applications  
Advisor:  
Rajesh Dave, PhD
Zhong He
BS Chemical Engineering, Tianjin University of Science and Technology, Tianjin, People’s Republic of China
MS Chemical Engineering, Tianjin University of Science and Technology, Tianjin, People’s Republic of China
Dissertation: 
Upgrading of Pyrolysis Bio-Oils by Hydrodeoxygenation Process
Advisor: 
Xianqin Wang, PhD

Itasos Auzmendi Murua
BS Chemical Engineering, University of Basque Country, Bilbao, Spain
Dissertation
Reaction Mechanisms of Hydrocarbon and Mercury Systems in the Atmosphere and in Combustion: 
A Theoretical Study of Thermochemical and Kinetic Properties
Advisor: 
Joseph W. Bozzelli, PhD

Zhang Shasha
BS Chemical Engineering and Technology, Tianjin University, Tianjin, People’s Republic of China
MS Applied Chemistry, Tianjin University, Tianjin, People’s Republic of China
Dissertation: 
Metal Based Reactive Nanocomposites Prepared by Cryomilling
Advisor: 
Edward Dreyzin, PhD

* Mojdeh Tabatabai
BS Chemical Engineering, Pahlavi University, Shiraz, Iran
MS Chemical Engineering, University of Illinois, Chicago, Illinois
MS Environmental Engineering, New Jersey Institute of Technology, Newark, New Jersey
Dissertation: 
Mathematical Modeling of Heavy Metals Diffusion and Removal from Cylindrical Cement Forms
Coated with Bio-Film
Advisor: 
Norman Loney, PhD

* John Tang
BS Engineering, The Cooper Union, New York, New York
Dissertation: 
Separation of Various Organic-Organic and Aqueous-Organic Solutions via Pervaporation
Advisor: 
Kamalesh K. Sirkar, PhD
CHEMISTRY

Chintal Desai
BS Chemistry, R.P. Baria Science Institute, Navsari, India
MS Chemistry, South Gujarat University, Surat, India
Dissertation:
Stability and Precipitation of Diverse Nanoparticles
Advisor:
Somenath Mitra, PhD

Jason M. Hudzik
BS Chemistry, New Jersey Institute of Technology, Newark, New Jersey
MS Chemistry, New Jersey Institute of Technology, Newark, New Jersey
Dissertation:
Computational Thermochemistry of Hydrocarbons, Oxygenates, Cyclic Alkanes, and Furans
Advisor:
Joseph W. Bozelli, PhD

Shyamala P. Pillai
BS Chemistry and Biochemistry, University of Mumbai, Mumbai, India
MS Physical Chemistry, University of Mumbai, Mumbai, India
MS Chemistry, New Jersey Institute of Technology, Newark, New Jersey
Dissertation:
Synthesis and Characterization of New Light Emitting Probes for Sensitive Detection of Bio-Molecules and Live Cells
Advisors:
Lev N. Krasnoperov, PhD
Arkady Mustaev, PhD

Varunpreet Randhawa
BS Chemistry, Guru Nanak Dev University, Amritsar, India
MS Chemistry, Guru Nanak Dev University, Amritsar, India
Dissertation:
Application of Hydrogen Peroxide as Brown Tide Bloom Control Agent
Advisor
Liping Wei, PhD

Munuvesh Sangwan
BS Pharmaceutical Sciences, Guru Jambheshwar Science and Technology University, India
MS Pharmaceutical Chemistry, Guru Jambheshwar Science and Technology University, India
Dissertation:
Study of Elementary Reactions of Combustion Importance at Elevated Temperatures and Pressures
Advisor:
Lev N. Krasnoperov, PhD
Da Jong Shim
BS Fine Chemistry, Seoul National University of Science and Technology, Seoul, South Korea
Dissertation:
*Escherichia Coli 2-Oxoglutarate Dehydrogenase Multienzyme Complex: E1 and E2 Substrate Specificity, E1 Catabolase Activity, and E2 Interchain Succinyl Transfer*
Advisors:
*Edgardo T. Farinas, PhD*
*Frank Jordan, PhD*

* Laura A. Wirpsza
BS Biology, Susquehanna University, Selinsgrove, Pennsylvania
MS Chemistry, New Jersey Institute of Technology, Newark, New Jersey
Dissertation:
*Development of Luminescent Probes for Ultrasensitive Detection of Biopolymers, Their Complexes and Living Cells*
Advisors:
*Lev N. Krasnoperov, PhD*
*Arkady Mustaev, PhD*

CIVIL ENGINEERING

* Shabnam Darjani
BS Civil Engineering, Amirkabir University of Technology (Tehran Polytechnic), Tehran, Iran
MS Civil Engineering, New Jersey Institute of Technology, Newark, New Jersey
Dissertation:
*Dynamic Response of Highway Bridges under a Moving Truck and Development of Rational Serviceability Requirement*
Advisor:
*Mohamad A. Saadeghvaziri, PhD*

* Wei Hao
BS Civil Engineering, China University of Mining and Technology, Xuzhou, Jiangsu, People’s Republic of China
Dissertation:
*Driver Injury Severity at U.S. Highway-Rail Crossings*
Advisor:
*Janice R. Daniel, PhD*

Yazdan Majdi
BS Civil Engineering, Azad University, Central Tehran Branch, Tehran, Iran
MS Civil Engineering, Azad University, Central Tehran Branch, Tehran, Iran
Dissertation:
*Finite Element Analysis of Composite Floor with Cold-Formed Steel and Concrete Slab*
Advisor:
*C.T. Thomas Hsu, PhD*
COMPUTER ENGINEERING

Mete Yilmaz
BS Electrical Engineering, Bogazici University, Istanbul, Turkey
MS Computer Engineering, Bogazici University, Istanbul, Turkey

Dissertation:
Novel Algorithms for Fair Bandwidth Sharing on Counter Rotating Rings
Advisor:
Nirwan Ansari, PhD

COMPUTER SCIENCE

Sugata Banerji
BS Engineering in Information Technology, West Bengal University of Technology, Kolkata, India

Dissertation:
Novel Color and Local Image Descriptions for Content-Based Image Search
Advisor:
Chengjun Liu, PhD

* Shuo Chen
BS Computer Science and Technology, Zhengzhou University, Zhengzhou, Henan, People’s Republic of China
MS Computer Science and Technology, Zhengzhou University, Zhengzhou, Henan, People’s Republic of China

Dissertation:
Eye Detection Using Discriminatory Features and an Efficient Support Vector Machine
Advisor:
Chengjun Liu, PhD

* Roberto D. Rubino
BS Computer Science, William Paterson University, Wayne, New Jersey
MS Computer Science, New Jersey Institute of Technology, Newark, New Jersey

Dissertation:
Assured Packet-Level Identity-Based Security for Corporate Networks
Advisor:
Boris S. Verkhovsky, PhD
ELECTRICAL ENGINEERING

Behzad Ahmadi
BS Electrical Engineering, Isfahan Institute of Technology, Isfahan, Iran
MS Electrical Engineering, Isfahan Institute of Technology, Isfahan, Iran
Dissertation:
Adaptive Data Acquisition for Communication Networks
Advisor:
Osvaldo Simeone, PhD

Amrita Banerjee
BS Electronics and Communication, University of Burdwan, West Bengal, India
MS Electrical Engineering, New Jersey Institute of Technology, Newark, New Jersey
Dissertation:
Graphene-Coated Substrates for Biochemical and Optoelectronic Applications
Advisor:
Haim Grebel, PhD

Chen Chen
BS Electrical Engineering, Southeast University, Nanjing, People’s Republic of China
MS Electrical Engineering, Southeast University, Nanjing, People’s Republic of China
Dissertation:
Transceiver Design for Underwater Communication via Vector Fields
Advisor:
Ali Abdi, PhD

Zhi Yong Li
BS Electrical Engineering, Beijing Institute of Technology, People’s Republic of China
MS Electrical Engineering, New Jersey Institute of Technology, Newark, New Jersey
Dissertation:
Development and Application of Novel Detectors for X-Ray Spectroscopy and X-Ray Scattering Experiments
Advisors:
Durgamadhab Misra, PhD
Trevor A. Tyson, PhD

Chun-Hao Lo
BS Electrical and Computer Engineering, The Ohio State University, Columbus, Ohio
ME Electrical Engineering, University of Detroit Mercy, Detroit, Michigan
Dissertation:
Enabling Sustainable Power Distribution Networks by Using Smart Grid Communications
Advisor:
Nirwan Ansari, PhD
Nikhil Modi  
BE Electrical and Computer Engineering, Louisiana State University, Baton Rouge, Louisiana  
MS Electrical Engineering, Southern University, Baton Rouge, Louisiana  
Dissertation:  
Auger-Mediated Processes and Photoluminescence in Group IV Semiconductor Nanostructures  
Advisor:  
Leonid Tsybeskov, PhD

Khondaker M. Salehin  
BS Computer Science and Engineering, Ahsanullah University of Science and Technology, Dhaka, Bangladesh  
MS Telecommunications Engineering, New Jersey Institute of Technology, Newark, New Jersey  
Dissertation:  
End-to-End Network Measurement for Wired and Wireless Networks  
Advisor:  
Roberto Rojas-Cessa, PhD

Anil B. Shrirao  
BS Electronic and Telecommunication, Engineering, Babasahed Naik College of Engineering, Pusad, India  
MS VLSI Engineering, Shri Ramdeobaba Kamla Nehru Engineering College, Nagpur, India  
Dissertation:  
High Aspect Ratio Electrodes for High Yield Electroporation of Cells  
Advisors:  
Raquel Perez-Castillejos, PhD  
Durgamadhab Misra, PhD

Mustafa U. Torun  
BS Electrical and Electronics Engineering, Dokuz Eylul University, Izmir, Turkey  
MS Electrical and Electronics Engineering, Dokuz Eylul University, Izmir, Turkey  
Dissertation:  
High Performance Digital Signal Processing: Theory, Design, and Applications in Finance  
Advisor:  
Ali N. Akansu, PhD

Haifeng Xiao  
BS Electrical Engineering, Beijing University of Aeronautics, and Astronautics, Beijing, People's Republic of China  
MS Electrical Engineering, Beijing University of Aeronautics and Astronautics, Beijing, People's Republic of China  
Dissertation:  
Blind Recognition of Analog Modulation Schemes for Software Defined Radio  
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ENVIRONMENTAL ENGINEERING

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  BS Agricultural University, Ludhiana, India
  MS Environmental Engineering, Punjab Engineering College, Chandigarh, India
  Dissertation:
  *Leaching of Metals and Metalloids from Highway Marking Glass Beads and the Potential Environmental Impact*
  Advisor:
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ENVIRONMENTAL SCIENCE
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Dissertation:
*Thermochemistry Reaction Paths and Oxidation Kinetics on Ketonyl and Aldehydic Nitrogen Oxides, Propene and Isooctane: A Theoretical Study*
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Dissertation:
*HOSX: Hospital Operations Excellence Model*
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INFORMATION SYSTEMS

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Applications of Dielectric Spectroscopy: Water Remediation and Microfluidic Devices
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The Effects of Rapid Stretch Injury on Rat Neocortical Culture
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Synthesis and Characterization of Novel Boron-Based Nanostructures and Composites
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Foaming of Amorphous Drug Delivery Systems Prepared by Hot Melt Mixing and Extrusion
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Marino Xanthos, PhD
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Advisor:  
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MS Industrial Mathematics, Rutgers University, Camden, New Jersey  
Dissertation:  
*Analytical and Computational Methods for the Study of Rare Event Probabilities in Dispersive and Dissipative Waves*  
Advisor:  
*Richard O. Moore, PhD*

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MS Computer Science, Xi’an Jiaotong University, Xi’an, People’s Republic of China  
MS Applied Statistics, New Jersey Institute of Technology, Newark, New Jersey  
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*The Goodness-of-Fit Test for Geometric Models*  
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BS Mathematics and Applied Mathematics, Beijing Normal University, Beijing, People's Republic of China  
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Fast Algorithms for Brownian Dynamics Simulation with Hydrodynamic Interactions  
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Synthesis of Planar Motion Generation with Tolerances using Direct Linearization Method  
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Dissertation:
Optimizing Feeder Bus Network Based on Access Mode Shifts
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BS Environmental Planning and Design, Sociology, Rutgers University, Newark, New Jersey
Dissertation:
Community Composition, Demographic, and the Impact of Spatial Proximity to Disadvantage on Violence and Gang Presence in the Jersey Municipalities
Advisor:
Karen Franck, PhD

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BS Community Health Education Concentration: Epidemiology, City University of New York, Hunter College, New York
Dissertation:
Neighborhood Food Environments and Food Acquisition Practices in Newark’s South Ward
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* Kehinde Johnson Elujjinmi
Newark
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Union
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North Arlington

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Iselin

* Jude Trevant
Elizabeth

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Construction Management Technology Option

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Narguis Benyamin
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Piscataway

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Manville

* John M. Maiorelli
Bridgewater

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Manville

Anand Sutah
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Landing

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† Ulysses Wallace III  
Trenton
Rambert Yan  
New York, NY
† Mina Youssef  
Fair Lawn
Tom Zamirski  
Hackettstown
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<table>
<thead>
<tr>
<th>Name</th>
<th>City</th>
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<tbody>
<tr>
<td>Moustafa E. Abouelmagd</td>
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<td>Carlos David Perez</td>
<td>Fairview</td>
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<td>* Bogdan Seredyak</td>
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<td>Anthony Louis Zampolin</td>
<td>River Vale</td>
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  Middletown

‡ Tracy Wu
  Egg Harbor Twp
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Kevin Sean Cornelio
Pompton Lake
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Union
Danielle J. Esmaya
Union
Stephen W. Haddock-Weiler
Denville
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Saddle Brook
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Jersey City
Nelson Luna
Somerset
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Totowa
* Max Mueller
Nutley

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Woodbridge
Joseph Stachura
Newton
* Stephanie E. Thompson
Belford
* Luis A. Torres
Hoboken

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Mettuchen
Jannine Angbetic
Livingston
Stephanie G. Bazan
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Ryan Patrick Calabro
West Paterson
Wendy Elizabeth Ceron
Belleville
Tatiana Duarte
Elizabeth
Eman F. Elkwisni
Jersey City
Peter Joesph Fritzky
New Milford

Teresa Gallagher
Mahwah
Liliette Graca
Plainfield
† Anita Graham
Mullica Hill
Rafael Guerrero
Paterson
Kristen Hagen
Lincoln Park
Nora Hamade
Sparta
Rebecca Melizza Madrigal
Keasbey
Christopher Matthew Mayer
West Paterson
Mary E. O’Haire
Little Falls
* Melissa Aguilar Pereira
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### COLLEGE OF SCIENCE AND LIBERAL ARTS

#### Bachelor of Science

**APPLIED PHYSICS**
(Degree conferred jointly by NJIT and Rutgers-Newark)

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- Tomasz Piotr Cyrulik
  Elmwood Park
- Nihal P. Dayal
  Wall
- Navid Entezarian
  Hackensack
- Christopher M. George
  Bloomfield
- Andrew Kantor
  West Orange
- Ali M. Mustafa
  Clifton
- Jeremy D. Raymar
  Lincoln Park

**BIOCHEMISTRY**

Salman Muhammad Farooqui
Morganville

Marina Lexina Saint-Val
Roselle Park

**BIOLOGY**
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  Totowa
- Abduallah Hussein Alaqrabawi
  North Bergen
- Elwira Antonik
  Edison

- Sana Bendaoud
  Bayonne
- Dhara M. Bhalodia
  East Hanover
- Ammar K. Charaf
  Teaneck
- Anjali J. Das
  Portland, OR
- Sarah Fakhry
  Monroe
- Mohanika Gowda
  Portland, OR
- Jamara N. Johnson
  Newark
- Gaurav Kumar
  Carteret
- Ali M. Mustafa
  Clifton
- Naem Patel
  North Bergen
- Konrad Richard Piatkiewicz
  Linden
- Krish Pillai
  West Orange
- Byan Saleh
  Wayne
- Enas M. Shehadeh
  Passaic

**CHEMISTRY**

- Kyle Robert Goldhammer
  West Milford
- Azmal Haidar
  Paterson
- Andrea Lyn Lozarito
  South Plainfield
- Nikita R. Patel
  Jersey City
- Elizabeth Fernanda Rodriguez
  Elizabeth
- Gira D. Shukla
  Budd Lake
- Douglas Raymond Siano
  East Windsor

**COMMUNICATION AND MEDIA**

April Debock
South Orange

Victoria Lynn Gill
Mahwah

Mohammad Sameer Haider
Ringoes

Jennifer Marie Kalczewski
West Deptford

Garrett R. Moran
Franklin Lakes

Michael Andrew Nusspickel
Westampton

Louise Pronstroller
Englewood

Brady Michael Smith
Kirtstown, HI

Marie Zoghbi
Highland Park

**ENVIRONMENTAL SCIENCE**
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- Victoria Lynn Battle
  Roselle Park
- Derek James Forbes
  Blue Anchor
- Debbie Han
  Morganville
- Hoonjooong Kim
  Palisades Park
- Megan Patricia Rapisarda
  Stone Harbor
* Ruby Jane Rogers  
Old Bridge  
Sherief O. Saleh  
Jersey City  
Manveer Singh Sidhu  
Sparta  
Michael Joseph Tabuzo  
Bergenfield  
Sherre-Ann A. Wallace  
Union

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| * Rohith Adusumilli  
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  Mudafiulai O. Akande  
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  Frederick Antwi  
  Newark  
  Wilfried Baah  
  East Orange  
  Ryan Christopher Blondell  
  Handin, NY  
  David K. Cunningham  
  Marlboro  
  Rajiv Deowdhat  
  Boonton  
  Nancy Pierre El Haddad  
  Newark |

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  Sean Gavin Kilroy  
  Avenel  
  Tianyu Li  
  Livingston  
  Kevin M. Lombardo  
  Fair Lawn  
  Travis Montague  
  Clifton  
  Rashmi Siva Nattamai  
  Avenel  
  Xing Nie  
  Piscataway  
  Blake E. Nixon  
  Newark  
  Jhon E. Osorno  
  Elizabeth  
  Asabere Owusu  
  Sayreville  
  * Osvaldo Padilla  
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  Ankit Parikh  
  Morganville  
  Kodjovi A. Quenum  
  Newark  
  Snehal Rana  
  North Arlington  
  David H. Rios  
  Harrison  
  Matan Shavit  
  Westfield |

| Tongtong Wang  
  Livingston  
  Aneta Wnorowski  
  Garfield  
  Anthony Zaleski  
  Allbrightsville, PA |

| Katelyn A. Brennen  
  Brick  
  † Michael P. Durao  
  Toms River  
  Edward J. Helmstetter  
  Cranford  
  Asma Jafri  
  Freehold  |

| Tito Ganiyu Nurudeen  
  Jackson  
  Amanda Malia Oquendo  
  Somerset  
  Tasnim Abdel Nasser Selim  
  South Plainfield  
  Ogechi F. Ukaegbu  
  Union  
  Stephanie Veve  
  Hillside  
  Michael D. Watts  
  Ewing |
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BACHELOR OF ARTS

**BIOLOGY**  
(Degree conferred jointly by NJIT and Rutgers-Newark)

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Lana Satanay Shaker
Clifton

* Gaurav Kumar Sharma
Somerset

* Balaji Sutharsanam
Kendall Park

Ruchika Talwar
Hightstown

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Randolph

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Sugar Land, TX

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Titusville, FL

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Toronto, Canada

Allison Land
Westfield

* Franklin Delano Lowe
Railway

Aisha J. Mian
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North Arlington

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Warminster, PA

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Old Bridge

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Orange

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Maciej Rogozinski
Butler

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Lyndhurst

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  Harrison
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  Morristown
- Sandhya Balakrishnan
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- Idil Balkay
  Lyndhurst
- Shahrukh Bari
  East Brunswick
- William T. Barry
  Dayton
- Akash Pradip Bhojawala
  New Brunswick
- Robert Blasco
  West Creek
- Shannon Amanda Boodhoo
  Chatham
- Anthony Stephen Boon
  Verona
- Alison Shirley Botitano
  Jersey City
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  Irvington
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  Garfield
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- Promini Chadha
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  River Edge
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  Fords
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- Eric Justin Conroy
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  Newark
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  Irvington
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  Linden
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  Wayne
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  Jersey City
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  Rahway
- Julianne Jones
  Montclair
- Ulendo G. Jones
  Newark
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  Hillside
- Yousef L. Kabir
  North Brunswick
- Ahsan Kadeer
  Piscataway
- Mark Lacey
  Roselle
- Yashua E. Lane
  Plainboro
- Elayne Laskowski
  Clifton
- Christopher Steve Lin
  Paramus
- Henrique M. Lopes
  Newark
- Rishabh Luthra
  Franklin Park
- Lars Semb Maalen-Johansen
  Newark
- Ahsan Malik
  Watchung
- Ewelina Elzbieta Marut
  East Rutherford
- Soha Mashal
  North Bergen
- Siera Nasem Mazahreh
  Cherry Hill
- Austin McAuliffe
  Rumson
- Sean Micheal McCarthy
  Scituate, MA
- Lorraine McCoy
  Secaucus
- Brian Mendez
  Kearny
- Hamza M. Mian
  Toms River
Paul Miller  
Fort Washington, MD
Kedar Deepak Moghe  
Belle Mead
Caitlin Rose Monroe  
South Plainfield
Jerome J. Monroe  
Bayonne
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Jersey City
* James Y. Moy  
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* Iman C. Nieves  
South Orange
* Ike H. Odumuko  
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Reid Okita  
Hoboken, NJ
Steven R. Oshiro  
Andover
Erol Ozer  
Sayreville
Dharti S. Patel  
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* Jay V. Patel  
Sayreville
* Pratik S. Patel  
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Elizabeth
* Dulce C. Perez  
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Joy Javier Perez  
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Jeffrey Manuel Pizzi  
Marlboro
Cornelius Babatunde Popoola  
Newark

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Shaneza Rahaman  
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Brooklyn, NY
* Tiffany Stacey-Ann Reid  
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Mark Riccardi  
Belleville
Miguel Jose Rodriguez  
Nutley
Pet Rousar  
Newark
Sangamithra Santhakumar  
Plainboro
James Schumacher  
East Windsor
Puneet Shahi  
Franklin Park
Dania Shahzad  
Rutherford
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Millburn
Rabiyah Siddiqui  
Iselin
Janet Snell  
Bogota
Mathew L. Somiari  
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Andrei Philip Stoyanow  
Newark
* Amanda Suric  
Fairview
Webber Sybrun  
Newark
Becklyne Annide Tilus  
East Orange
Edward J. Vargas  
Guttenberg
Abraham Vilefort  
Vauxhall
* Isaiah Wilkerson  
Willingboro
Vivian Wong  
Kearny

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New Brunswick
Christopher Mauricio Flores  
Dorchester, MA
Bora Yagiz Isguder  
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* Ben Joseph  
Irvington
Jacob Lamitie  
Hamilton
* Radwa Hassan Mahmoud  
Old Bridge
Ashley M. Martins  
North Arlington
* Christina Arleen Melo  
Englewood
Nicholas John Palmieri  
West Milford
* Carl Edouard Pierre  
Elizabeth
Karina Da Silva Santos  
Newark
Sharif M. Smith-Saunders  
Newark
* Tyler Benjamin Womble  
Somerset
Jelena Zoric  
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COLLEGE OF COMPUTING SCIENCES

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BUSINESS AND INFORMATION SYSTEMS

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South Plainfield
Theophilus A. Blount
Bergenfield
* Paul Joseph Han
Monroe Twp
Ryan Harrison
Montague
* Nikita Keshwani
New Milford
Gregory Khoury
Midland Park
* Jon Paul Lodato
Fair Lawn
Michael Luongo
West Caldwell
* Eslam Mehany
Union City
* Hose Pascua
Railway
Sanket Patel
Procusinway
Tiffany A. Pierce
Florham
* Manal Sabounji
Union City
Erick Fernando Sanchez
Suasnabar
Dover
Robert Wierciszewski
Wallington
Shane Michael Zappa
Newton

COMPUTER SCIENCE

* Kevin Anthony
Edison
* Byron R. Avila
Trenton
Viral J. Bhushan
Jersey City

* Phillipe Briones
Belleville
* Leo E. Bussiere
Milford
Vincenzo Carino
Livingston
* Aziz U. Chaudhry
Clark
* Xavier M. Coble
West Friendship, MD
Brian Corzo
Clifton
Chris Healey Decker
Morristown
* Dharit U. Desai
Springfield
* Justin DuDasko
Lakewood
Timothy Esposito
Kearny
Sunday Ayoade Ewebiyi
Perth Amboy
* Joseph J. Flynn
Fair Lawn
Timothy R. Gordon
Lakehurst
* Jasen Incidis
Lodi
Russell Johnson
Fair Haven
Mehul Kevadiya
Rutherford
James W. Matheson
Garden
* Yannick Mark Mensah
Newark
* Adrian P. Micayabas
Fair Lawn
David Mogrovejo
Clifton
* Christopher Michael Mondok
Long Valley
* Brian Nunes
Hazel
* Dev V. Patel
Harrison
* Hiral Amrutbhai Patel
Jersey City

Mihir Patel
North Brunswick
* Pavel Romanovski
Clifton
Mihir Sanghavi
Newark
* Jemin N. Shah
Jersey City
Jinang K. Shah
Jersey City
Niket D. Shah
Metcen
* Rishi R. Shah
Burlin
Sandra C. Shah
Harrison
* Sarth Snehal Shah
Saddle Brook
Ethan Sunag
Boonton
* Kylech Talantbekovich
Tynbyekov
Jersey City
Peter A. Vasilesce
Morristown
Vien T. Vuong
East Brunswick
* Erika Jean Waldinger
Hackettstown
Zachary J. Wang
Englewood
* R. Donald Winship
Mt. Tabor

COMPUTING AND BUSINESS

* Gregory Chrzastek
Clifton
* Mark Poko
Old Bridge
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CANDIDATES FOR BACCALAUREATE DEGREES

Dhaman R. Mehta  
North Bergen
Sanket R. Mehta  
Lodi
Carlos Mercado  
Dunellen
Jerell Mingo  
Irvington
Nathaniel Robert Minis  
Streetsburg
Ali Mirghahari  
North Caldwell
Peter J. Mohabeer  
Union
* Fernando Monclova  
Jersey City
* Matthew R. Newman  
Saddle Brook
Alexander Lopes Nunes  
Lyndhurst
Brian O’Hara  
Rutherford
* Anand Atul Patel  
Bordentown
Bhoomik M. Patel  
Clifton
* Jignesh B. Patel  
Smith Plainfield
Saajan M. Patel  
Kearny
* Joseph M. Petruska  
Montvale
Jose Pineyro  
Prospect Park
Ricardo Pitt  
Englewood
* Eliezer Polanco  
Jersey City
Mitchell David Quinn  
Hoboken
* Pintu D. Rana  
Passaic
Gerald S. Reynolds  
Bayonne
* Roberto J. Rios  
Clifton
* Oscar E. Sandoval  
Port Reading
Raghav Sankararaman  
North Arlington
* Steven C. Saunders  
Flananders
* Thomas W. Scancarella  
Clifton
* Jason M. Schery  
Morristown
Luis M. Serpas  
Kearny
Malik W. Sessoms  
Union
Mehul Shah  
Harrison
* Swapnil Dipak Shah  
Avenel
* Elvis Shapiro  
Staten Island, NY
Michael Peter Shulman  
Garden City, NY
Nikunj Deep Singh  
Harrison
Joseph M. Sinopoli  
Mahwah

BACHELOR OF ARTS

COMPUTER SCIENCE  
(Degree conferred jointly by NJIT and Rutgers-Newark)
* John Joseph Fostek  
Clifton
* Jason K. Jackson  
Bridgewater
Gerard B. Malik  
Bloomfield
Hans Marcelino  
North Brunswick
* Amit Patel  
Parsippany

INFORMATION SYSTEMS  
(Degree conferred jointly by NJIT and Rutgers-Newark)
Kimberly Barrera  
Passaic
* Sadé Chanté Coley  
Parsippany

WEB AND INFORMATION SYSTEMS  
Bushra Mahmood  
Clifton
* Vishaal V. Patil  
Plainsboro
* Justin Spony  
Vernon

† Judy Lynn Corrente  
Lake Hiawatha
* Olesya Grishina  
Linden
* Sheril James  
Bloomfield
Alexander M. Kudryk  
New York, NY
* Gerusa Pavan Machini  
Newark
Tochukwu Chibundum Umekwe  
Union
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**HONORS DESIGNATION**

*Honors Scholar* — graduate of the Albert Dorman Honors College
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The following designations are based upon cumulative grade point averages achieved prior to the spring semester:

summa cum laude — with highest praise
grade point average 3.85 - 4.00

magna cum laude — with great praise
grade point average 3.65 - 3.84

cum laude — with praise
grade point average 3.40 - 3.64
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VETERANS WHO SERVED IN THE ARMED FORCES

Andrew Bakir  Somer Hernandez  Roberto J. Rios
Nicholas Michael Benedetti  Elujimmel K. Johnson  Jonathan Salib
Christian Michael Caporrillo-  Eamon Andrew Leighty  Benjamin Smith
    Annecchino
Frances Marie Casuga  Sunny Lim  Tai Y. Su
Kenny Chang  Thomas J. Magill  Hung Quoc Tang
David R. Conner  Eugene Vida Maina  Raul Edgardo Velasquez
Michael A. Costello  Guillermo Ricar Marquina Viera  Michael D. Watts
Bjorn William Fecher  Christina Arleen Melo  Juluadweh B. Wreh
Derek James Forbes  Carlos Mercado  Joey Yeh
Jorge C. Garced  Tia J. Montalto  Jimmy Zambrano
Timothy M. Gilligan  Robert Moskal
Brian B. Gregg  Blake E. Nixon
Danilo M. Guerrero  Efrain Orsini Jr.
    Dominic J. Pace
    Joseph A. Palermo
    Eliezer Polanco
    Gregory John Quimby
    Snehal Rana
# Marshals

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<td>Thomas Navin</td>
<td>Yi-Fang (Brook) Wu</td>
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<td>Ronald Rockland</td>
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<td>Rhett Russo</td>
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COMMISSION

UNITED STATES AIR FORCE RESERVE CANDIDATE FOR COMMISSION

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Charles Brooks
Louise Castronova
John Egan
Carol Johnson
Jerome Paris

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Elvira Hoxha

College of Science and Liberal Arts
Andrew Deek

School of Management
Amoolya Jayaram

Albert Dorman Honors College
Michael Anderson

College of Computing Sciences
Mihir Sanghavi

Alumni
Marsha S. Lindsay ’09

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Ryan Walton
Renee Watkins-Ore
Johnathan Weiss
LaTosha Wilson
Sanjeannetta Worley
AWARDS

AWARDS EARNED FOR ACHIEVEMENT IN THE YEAR OF GRADUATION

Joseph Bailey Scholarship
Rebecca Melizza Madrigal
Bloustein Distinguished Scholarship
Parina Patel
Reem Salem
Frank and Kathleen Cassidy Endowment Scholarship
Jamara Johnson
Class of ’40 Scholarship
Yashshree B. Shah
Cochrane Scholarship
Anthony DeZenzo
Simon Cohen Scholarship Award
Xing Nie
Cullimore Scholarship
Eric Campbell
Dendrite Scholarship
Tiffany Pierce
Gordon F. Foster Scholarship
Carmen Velez
Garfield Scholarship
Yashshree B. Shah
Glass Scholarship
Qiyun Jiang
Greenberg Scholarship
Vanessa Castelblanco
Guttenberg Scholarship
Rebecca Melizza Madrigal
Hopper Scholarship
Honggoong Kim
Hurlburt Scholarship
Ankit K. Bedi
Jay Patel
Kennedy, De’J Scholarship
Anthony F. Moussa
Morton A. Kreitchman ’44 Memorial Scholarship
Peter Marsh Cerasoli
Bernard Leroe ’46 Scholarship
Mohamed Hanafy
Mandle Scholarship
Mohamed Hanafy
Raymond McGowan Scholarship
Vanessa Castelblanco
Christopher Fowler
Moles Scholarship
Anthony DeZenzo
Newark College of Engineering
Biomedical Engineering Department
Outstanding Senior Award
Dung Thien Le
Newark College of Engineering
Chemical Engineer Outstanding Senior Award
Katlin Davis
Newark College of Engineering
Electrical & Computer Engineering Department
Outstanding Senior Award
Anthony F. Moussa
Newark College of Engineering
Engineering Technology Department
Outstanding Senior Award
Keith Davis
Newark College of Engineering
Mechanical Engineering Scholarship
Ankit K. Bedi
Newark College of Engineering
Outstanding Graduate Student Award
Yazdan Majdi
Newcombe Scholarship
Ankit K. Bedi
NJIT Board of Overseers Scholarship
Qiyun Jiang
NJIT College of Computing Sciences Award
Nkemakonam P. Okoye
NJIT Faculty Scholarship
Anthony DeZenzo
Christopher Fowler
Jonathan Kim
Shyam Patel
Tiffany Pierce
Reem Salem
Yashshree B. Shah

NJIT Honors Scholarship
Leif E. Baumbach
Eric Campbell
Christopher Fowler
Qiyun Jiang
Jonathan Kim
Shyam Patel
Yashshree B. Shah
Andrei Stoyanow
Erick Sanchez Suasnabar
Chang Yaramothu

NJIT Presidential Scholarship
Christopher Fowler
Erick Sanchez Suasnabar

NJIT Presidential Scholarship for International Students
Andrei Stoyanow
Chang Yaramothu

NJIT Urban Scholarship
Parina Patel

NJIT Women in Science & Engineering Scholarship
Vanessa Casteblanco
Qiyun Jiang

NJ Stars II Scholarship
Timothy Straut

Office of the Governor
Academic Achievement Award
Charles Beltran

Panasonic Scholarship
Theophilus Blount

Michael J. Pappas Scholarship
Glendon Scott

Pelton Scholarship
Reem Salem

Troy Pinchney Scholarship
Glendon Scott

Quasi Foundation Scholarship
Ankit K. Bedi
Michael A. Middleton
Carmen Velez

Harold B. & Dorothy A. Snyder Foundation Scholarship
Pawel Uszynski

Anna & Johann Spatz Memorial Scholarship
Vanessa Casteblanco
Wendy Hertulien

Clarence Tabor Memorial Scholarship Award
Michael A. Middleton

Turner Construction Scholarship
Anthony DeZenzo
Edgar S. Renteria
Timothy Straut

Weir Endowed Scholarship
Anthony F. Moussa

George J. Yohrling ’69 Endowed Scholarship
Glendon Scott
Kyle Zimmerman
IN RECOGNITION OF THE CLASS OF 2013

Proud parents, family and friends have recognized the accomplishments of individual members of the Class of 2013. Gifts, in their honor, have been made to the university to provide support for future generations of graduates.

In honor of my son
Eric Barreira
Maria Barreira

In honor of our son and brother
Justin Carloni
Mom, Dad & Brittany

In honor of my husband
Ciro Casimiro
Jaquelin Casimiro & Children

In honor of our son
Marlon Celiz
Peter, Sonia & Mary

In honor of my father
Edward N. Celiz
Kristen E. Celiz

In honor of my father
Edward N. Celiz
Edward Jesus Celiz

In honor of my son & brother
Norbert Y. Chang
Daphene & Naomi Daphne

In honor of my son
John Chisvette
Marie Chisvette

In honor of our grandson
John Chisvette
John & Luz Gonzalez

In honor of our son
Philip Ivo Costantino
Larry & Carla Costantino

In honor of our daughter
Katlin Blair Davis
Brian & Laura K. Powers

In honor of our daughter
Candice DeStefano
Your Family

In honor of our son
John A. DiCaprio
Mr. & Mrs. John DiCaprio

In honor of our grandson
Tyrone Kenneth Ellis, Jr.
Lorraine & Charles Greg & Family

In honor of our son
Ryan Allyn Finch
Dad & Mom

In honor of our son
Christopher Fowler
Alan & Gillian Fowler

In honor of my daughter
Emma Victoria Guerino
Kathleen Guerino

In honor of my son
Christian R. Guerrero
Your Proud Mother

In honor of our son & brother
Thomas Stanley Hercel
Mom, Dennis, Jr. & Lauren

In honor of our daughter
Meryl Hershfield
Candice & Alan Kwinter

In honor of our son and brother
Kenneth H. Hohnecker
Ruth Anne, Ken, Liz & Harri Hohnecker

In honor of our son
Daniel C. Justnes
David and Lynda Justnes

In honor of our son
Igor Krsstevski
Goce & Nadica Krstevski

In honor of our son
Christopher L. Lee
Grace K. Lee

In honor of my son
Michael Robert Lipinski
Love Mom

In honor of my son
Michael Vincent Loeffler, Jr.
Love Mom & Rachel

In honor of my daughter
Rebecca Madrigal
Teresa Madrigal

In honor of our daughter
Siera Nasem Mazahreh
Mom & Dad

Nasem & Amani Mazahreh
In honor of our son
Carl R. Meier
Stephen & Barb Meier

In honor of our son
Daniel Nese
Mom, Dad & Sister Erica

In honor of my son
Joseph Robert Noonan
Doreen Noonan
Mom

In honor of
Joseph Robert Noonan
Ray Russo

In honor of my grand nephew
Joseph Robert Noonan
Aunt Midge Columbia

In honor of my grandson
Joseph Robert Noonan
Grandma Helen Bell

In honor of our godfather
Joseph Robert Noonan
Jazzania & Joshua

In honor of my nephew & godson
Joseph Robert Noonan
Aunt Karen Ortiz

In honor of
Joseph Robert Noonan
Love Roxanne Spizzirro

In honor of
Joseph Robert Noonan
Maureen Russo

In honor of our son
Al Godfred Santillan Ongsuco
The Ongsuco family

In honor of our son
Carlos David Perez
Maria Henao & Carlos Henao

In honor of our son
Andrew Gregory Pitykin
Your Family

In honor of my son
Juan C. Lopez Rangel
Fernando Lopez Sanchez

In honor of my son
O’Dane O. Richards
Virginia L. Vassell
The O’Dane Richards Family

In honor of our son
Joseph Rojas
Nancy & Elmo Rojas

In honor of my brother
Joseph Rojas
Christopher Rojas & family

In honor of our son & brother
David J. Scheetz
Love Mom, Dad & Kimberly

In honor of our son & grandson
Michael P. Schultman
The Sandquist family

In honor of our son
Sharif M. Smith-Saunders
Mr. & Mrs. Craig Smith
Mom & Dad

In honor of our son
André P. Stoyanow
Elsas Migdaleski & Flaminio Mauricio

In honor of my brother
André P. Stoyanow
Stephanie Stoyanow

In honor of our son
Pawel Uszywski
Agata, Yanusz Uszywski

In honor our son & brother
Edward J. Vargas, Jr.
Mami, Papi & Edelyn

In honor of our daughter
Carmen Vélez
Daddy, Mommy, Ian & Iain

In honor of our son & brother
Alexander Webb
Maryann & Brittany Webb

In honor of our father & husband
Luther Vah Williams, Jr.
Theodosia Williams, Baynue,
Mardea & Moses Williams
IN RECOGNITION OF FAMILY AND FRIENDS

Members of the Class of 2013 have recognized the extraordinary people whose support has helped them throughout their academic career. Gifts in their honor have been made to the university to assist future students.

In honor of my father
Ravi Adusumilli
Rohith Adusumilli

In honor of my mother
Anal Abdel Rahman
Sally Allam

In honor of my father
Sagar Chatterjee
Jith Chatterjee

In honor of my mom
Gao Yan
Jian Dai

In honor of my parents
Joanne & Richard DeBock
Mom & Dad
April DeBock

In honor of my husband
Robert Gross
April DeBock

In honor of my family
Ra, Ken Hohnecker, Cecelia & Arlene
Kenneth H. Hohnecker

In honor of my mother
Angel Johnson
Jamara Johnson

In honor of my mom, dad & spouse
Homeira, Ahmad & Jila
Yazdan Majdi

In honor of my mother
Angelika Starke
Mirjam Milsch

In honor of my parents
Mr. & Mrs. Alberto M. Ongsco
Al Godfred Santillan Ongsco

In honor of my father
Imafidon Osarenkhoe
Osaze Ambrose Osarenkhoe

In honor of my family members
Osaze Ambrose Osarenkhoe

In honor of my parents
Rod & Eileen Rafferty
Shawn Rafferty

In honor of my father
Fernando Lopez Sanchez
Juan C. Lopez Rangel

In honor of my parents
Mr. & Mrs. Smith
Sharif Smith-Saunders

In honor of my mother
Miriam Gonzalez
Rhina Tamayo

In honor of
Mom, Abu, Nona,
Dad, Jaqui, & Bernie
Cartrina Valente

In honor of my mom & dad
Maryann Webb & Ronald Webb
Alexander Webb
# BOARD OF TRUSTEES

<table>
<thead>
<tr>
<th>Name</th>
<th>Title/Position</th>
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<tbody>
<tr>
<td>Hon. Christopher J. Christie</td>
<td>Governor of the State of New Jersey</td>
</tr>
<tr>
<td>Hon. Cory A. Booker</td>
<td>Mayor of the City of Newark</td>
</tr>
<tr>
<td>Kathleen Wielkopolski</td>
<td>Chief Financial Strategy Officer (Ret.) The Gale Company</td>
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<tr>
<td>Stephen P. DePalma ’72</td>
<td>Chairman and CEO (Formerly) Schoor DePalma, Inc.</td>
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<tr>
<td>Vincent L. DeCaprio ’72</td>
<td>President and CEO (Formerly) Vyteris, Inc.</td>
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<tr>
<td>Anthony R. Slimowicz</td>
<td>(Co-Vice Chair) Chief Operating Officer AJSCapital Holdings, LLC</td>
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<td>Philip K. Beachem</td>
<td>President New Jersey Alliance for Action</td>
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<td>Dennis M. Bone</td>
<td>President (Ret.) Verizon New Jersey, Inc.</td>
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<td>Peter A. Cistaro ’68</td>
<td>Vice President, Gas Delivery (Ret.) Public Service Electric and Gas Company</td>
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<td>Gary C. Dahms</td>
<td>President and CEO T&amp;M Associates</td>
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<td>Elizabeth (“Liz”) Garcia ’73</td>
<td>Manager, Public Affairs (Ret.) Infineum USA, LP</td>
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<td>Anthony J. Knapp, Jr.</td>
<td>Proprietor (Formerly) Black Horse Restaurant Group</td>
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<td>Lawrence A. Raia, ’65</td>
<td>Principal, Raia Properties</td>
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<tr>
<td>Binay Sugla</td>
<td>Chairman and CEO Mobile Matrix, Inc.</td>
</tr>
<tr>
<td>Name</td>
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<tr>
<td>Philip L. Rinaldi ’68</td>
<td>Chair, CEO, Philadelphia Energy Solutions, LLC</td>
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<td>Michael A. Wall</td>
<td>Executive Vice Chair, Executive Director</td>
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<td>Greater Newark Enterprises Corporation</td>
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<tr>
<td>Emil C. Herkert</td>
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<td>Charles R. Dees, Jr.</td>
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<td>Henry A. Mauermeyer</td>
<td>Vice President for Administration and Treasurer, NJIT</td>
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<td>Fadi P. Deek ’85, ’86, ’97</td>
<td>Interim Provost and Senior Vice President for Academic Affairs, NJIT</td>
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<td>Paul A. Deneny ’94</td>
<td>Vice President and Senior Operations Manager, Turner Construction Company</td>
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<td>Nicholas M. DeNichilo ’73, ’78</td>
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<td>Chairman and President (Ret.), Drexler Technology Corporation</td>
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<td>Caren L. Freyer DeSouza</td>
<td>Regional Public Affairs Manager, PSEG Services Corporation</td>
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<td>Vice President and District Manager, Gilbane Building Company</td>
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<td>President and CEO, Langan Engineering &amp; Environmental Services, Inc.</td>
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<td>Michelle Hallerdin</td>
<td>Chief Talent Officer, New Leaders</td>
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<td>General Counsel and Corporate Secretary, Applied Communications Sciences</td>
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<td>President and CEO, Berger Group Holdings, Inc.</td>
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<td>Patrick J. McGowan ’88</td>
<td>President, McGowan Builders, Inc.</td>
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ExxonMobil Chemical Company
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Vice President, United Parcel Service
Vincent Naimoli ’62  
Chairman Emeritus and Founder
Tampa Bay Rays, and Chairman and CEO
Anchor Industries and
Naimoli Baseball Enterprises
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Partner, Simpson Thacher & Bartlett
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Martin Tuchman ’62  
CEO, Kingstone Capital V
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Division President (Ret.), BD

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Henry A. Mauermann ’72, ’74  
Senior Vice President for Administration and Treasurer
Donald H. Sebastian, PhD  
Senior Vice President for Research and Development
Fadi P. Deek, PhD  
Interim Provost and Senior Vice President for Academic Affairs
Jack Gentul, PhD  
Dean of Students

Charles R. Dees Jr., PhD  
Vice President for University Advancement
Kay Turner, JD, SPHR  
Vice President for Human Resources
Henry J. Ross, PhD  
Chief of Staff, Office of the President
Holly Stern, JD  
General Counsel
The New Jersey Institute of Technology we know today has a rich history with its beginnings developing from the industrial age. Like many of the port cities around the world, the Newark of the late 19th century was a thriving industrial center. Its factories churned out thread, metals, paints and leather goods. In Newark, Thomas Edison set the stage at his Ward Street factory for his later astounding achievements, and Edison rival Edward Weston established the first factory in the United States for commercial production of dynamo electric machines.

On March 24, 1880, the Essex County Assemblyman in the state legislature introduced "An Act to Provide for the Establishment of Schools of Industrial Education." The Newark Board of Trade sponsored the bill. The Act established three schools of industrial education: one in Newark, one in Trenton, and one in Hoboken. The first Board of Trustees met on July 1, 1884. The Newark Technical School opened on Monday, February 9, 1885 with 88 students who attended despite a terrible snowstorm.

The first class, mostly evening students, attended classes in a rented building at 21 West Park Street. Soon the facility became inadequate to house an expanding student body. To meet the needs of the growing school, a second fundraiser—the institution’s first capital campaign—was launched to support the construction of a dedicated building for Newark Technical School. In 1886, under the leadership of the school’s dynamic first director, Dr. Charles A. Colton, the cornerstone was laid at the intersection of High Street and Summit Place for the three-story building later to be named Weston Hall in honor of the institution’s early benefactor. A laboratory building, later to be called Colton Hall, was added to the campus in 1913. Daniel Hodgdon served as the director of Newark Technical School from 1918 to 1920.

Under Dr. Allan R. Cullimore, who led the institution from 1920 to 1949, the modest Newark Technical School was transformed into the robust Newark College of Engineering. Campbell Hall was erected in 1925. During the lean years of the Depression and World War II, only the former Newark Orphan Asylum, now Eberhardt Hall, was purchased and renovated by the college.

The post-war period was one of enormous activity during which President Cullimore—like today’s post-Cold War university presidents—challenged the college to turn “war-time thinking into peace-time thinking.” In 1946, about 75 percent of the freshman class had served in the armed forces. Robert W. Van Houten was acting president of NJIT from 1947 until 1950 when the board of trustees named him president. Cullimore Hall was built in 1958 and two years later the old Weston Hall was razed and replaced with the current seven-story structure. Doctoral level programs were introduced and six years later, in 1966, an 18-acre, four-building expansion was completed. William Hazell succeeded Dr. Van Houten as president of NJIT in 1970.

In 1973, with the addition of the New Jersey School of Architecture, the institution had evolved into a technological university, emphasizing a broad range of graduate and undergraduate degrees and dedication to significant research and public service. A stronger-than-ever Newark College of Engineering remained intact, but a new university name—New Jersey Institute of Technology—signified the institution’s expanded mission.

A broadened mission called for the creation of a residential campus. The opening of NJIT’s first dormitory, Redwood Hall, in 1979 began a period of steady growth that continues today. Under the leadership of Saul K. Fenster, who served as president of NJIT from 1978 to 2002, four new schools were established at the university: The College of Science and Liberal Arts in 1982; the School of Management in 1988; Albert Dorman Honors College in 1994; and the College of Computing Sciences in 2001. During the administration of Robert A. Altenkirch, New Jersey School of Architecture was reconstituted as the College of Architecture and Design in 2008.
This past academic year, Joel S. Bloom was formally installed as the eighth president of NJIT. The new administration continued the expansion of NJIT’s Newark campus. The Warren Street Village, an $80-million residential complex that includes the six-story Dorman Residential Honors College as well as five duplex homes that will house 10 or more Greek organizations, is scheduled for completion by fall of 2013. NJIT received full accreditation and an excellent report from the Middle States Commission on Higher Education which said, “The students are excellent, well-trained, and graduates are highly successful after leaving the university.”

NJIT TODAY
Today, with its four-pronged mission of education, research, service and economic development, the university plays a critical role in shaping New Jersey’s future. As a major public technological university, NJIT is an important conduit through which technology flows into society.

University researchers seek new knowledge to improve processes and products for industry. Through public and private partnerships and economic development efforts, the university helps to grow new business ventures that fuel the economy. NJIT’s research program is among the fastest-growing in the nation and ranks among the top ten technological universities in the nation for research expenditures.

The university’s extensive community outreach and economic development programs include the Enterprise Development Center (EDC), New Jersey’s first and largest small-business incubator—one of the top 25 in the nation—focusing on high-technology companies and minority-owned businesses.

NJIT has been designated a Center of Academic Excellence in Information Assurance Education by the National Security Agency.

As the state’s Homeland Security Technology Systems Center, NJIT serves as a consultant for technology evaluation and develops prototypes of integrated homeland security systems for testing, demonstration and training. The Center focuses on areas already identified by the federal government as vital to national security: intelligence and warning, border and transportation security, protecting critical infrastructure and key assets, emergency preparedness and response, and defending against catastrophic threats and domestic counter-terrorism.

NJIT’s educational programs prepare students to be leaders in the technology-dependent economy of the 21st century. Our educational programs grow out of a century-long tradition of academic excellence, and our student body is one of the most diverse in the United States. Ninety-eight percent of NJIT’s full-time faculty hold the terminal degree for their field. The university’s faculty:student ratio is 1:16.

NJIT is ranked in the nation’s top tier of national research universities, according to the U.S. News and World Report’s 2013 Annual Guide to America’s Best Colleges. The Bloomberg Businessweek survey of U.S. colleges ranked NJIT in the top 10 percent nationally for return on investment and classified the university as one of four higher education “best buys” in New Jersey. Payscale.com ranked NJIT eighth among state universities for salary potential, both at the starting level and at mid-career. According to Forbes.com, NJIT ranks among the nation’s 25 “most connected” campuses. The Princeton Review named NJIT among its Best 377 Colleges for 2013, the nation’s top 25 campuses for technology and as one of the nation’s most environmentally responsible campuses. In a study by Academic Analytics, NJIT was tenth among research universities specializing in science, technology, engineering and math based on faculty scholarly productivity. Tech Transfer 2.0 ranked NJIT third in the U.S. in most inventions per Federal dollar. In addition, Diverse: Issues in Higher Education ranks NJIT among the nation’s leading schools for graduating minority engineering and computer science students.

NJIT’s goal for the next decade is to be recognized as a top-ranked public research university, as a national leader in the education of underrepresented groups for the technological professions, and as a catalyst for a healthy New Jersey economy.
The pageantry and tradition of college and university commencement ceremonies originated more than 800 years ago in medieval universities of Europe.

These early universities were bodies or guilds of students who took their name from the Latin word *universitas*, meaning a number of persons associated into one guild or community. These guilds were dedicated to the mastery of the arts and sciences. The master's or doctoral degree denoted full membership in the guild and admitted the recipient to the practice of teaching. The bachelor's degree, on the other hand, originally indicated only that the recipient had entered a course of study leading to the doctorate or master's. Later, the baccalaureate came to signify the completion of one level of study preparatory to higher degrees.

The term "commencement," which means beginning, originally referred to the occasion on which the student received the master's degree and "commenced" his career. Today, however, all levels of degrees are conferred at commencement.

Academic caps, gowns and hoods developed gradually from the long flowing robes that the teachers wore to protect themselves from the cold of the medieval buildings. As the scholars of the time were usually clerics, their robes differed little from those used by the church orders. Slowly, certain styles were designated for the universities, and these, with minor modifications, are the costumes worn today. Hoods were originally fashioned after the monk's cowl. The cap, with its tassels, evolved from the skull caps of the scholar-monks. In France, where the degree system probably began, wearing the cap and gown marked the formal admission of the student to the body of masters.

Today, academic regalia is standardized by the American Intercollegiate Code.

In the United States, it is traditional for academicians to wear the gown and hood of the university where they received their highest degree.

The gowns of bachelor's and master's degree candidates are usually without trimmings, whereas those for the doctoral degree are faced down the front with velvet and adorned with three velvet bars on the sleeves. The hood, a triangular fold of cloth worn over the back of the gown, is faced with colors which signify the field of study in which the degree is earned. The colors of the lining are those of the college or university which granted the degrees. The length of the hood increases with each higher degree.

The cap may be the stiff-crown style (mortarboard), or the soft tam. The tassel for bachelor's and master's is black or color appropriate to the major; those of doctor's are black or golden. The tassel is worn on the left side by those who have received a degree.

These colorful traditions culminate today in the academic procession and the commencement ceremony itself. They carry with them the splendor and majesty that is properly associated with such a happy and important occasion and help remind us of the long tradition of higher education.

**THE MACE**

The mace, used today as a symbol of authority invested in the president by the Board of Trustees, is the institution's most sacred symbol of office. Dating back to medieval times, it was used by civil officers and bodyguards. Originating from fasces used during the Roman Empire to restore order and implement court-ordered punishment, fasces were carried in processions adorned with laurel on festive occasions and draped in cloth for mourning. Maces were also used in consecration ceremonies and to protect the pope, cardinals and bishops. In time, it became a staff borne by, carried before, or placed near a magistrate or other dignitary as an ensign of his royal authority.

Presented as a class gift in the early 1950's, the mace is thirty inches in length, made of wood and metal struck in silver and cast in bronze. Its head is marked by the seal of the university at the time of its presentation. The mace is adorned with tassels representing the colleges and degrees awarded by the university.
**THE PRESIDENTIAL MEDALLION**

The use of medallions or large medals, as symbols of office and authority, is also a tradition stemming from medieval times. The presidential medallion of the university is struck in silver and cast in bronze. It is worn about the neck by the president of the university on ceremonial occasions.

The Presidential Medallion used today consists of two plates. The first plate is a replica of the medallion presented to the university in 1968 by the Alumni Association bearing the university seal at the time. The second plate bears the official university seal today.

**THE GONFALONS**

Gonfalons, the insignia or symbols first used by princes or states in medieval Italy, have in recent times become widely used by colleges of major universities. The 1987 commencement ceremony marked their first processional use by New Jersey Institute of Technology. Each of the NJIT colleges is identified by its own symbol and by the year of its establishment.

Newark College of Engineering has as its ensign a chess rook, an ancient symbol associated with engineering and problem-solving as well as an early device in heraldry. It is shown on a field of academic orange with the year 1919, as the date when degrees were first authorized for the college.

College of Architecture & Design carries as its symbol a representational column head, the classic denotation of the discipline which is used throughout the college. It is shown on a field of blue violet, the academic color, and bears the year designation of 1973.

College of Science and Liberal Arts is identified by a lamp, another medieval symbol, commonly seen as a source of intellectual, moral and spiritual illumination. The white and gold of the banner encompasses both arts and letters and theoretic and applied aspects of science. The college was organized as a degree-granting entity in 1982.

The American eagle in flight is the pictorial representation of the School of Management, symbolizing vision, control and integrity. Often depicted on coinage and currency, the eagle enjoys a historical tie to business and management and is shown against light brown, the academic color of its discipline.

The Albert Dorman Honors College, represented by a scroll, was established in 1993. The college aims to inspire and prepare NJIT Honors Scholars to succeed through the highest standards of personal and academic achievement.

The College of Computing Sciences is represented as a circle of five segments symbolizing computing as an academic discipline that connects and enriches all disciplines. The light blue background signifies computing as a distinct discipline in its own right, while the colors in the circle represent the other academic disciplines.
To Alma Mater fair and great,
our voices now we raise.

Our gratitude we demonstrate,
your steady voice we praise.

Your challenge on us never fails,
a world of knowledge calls.

In heart and mind,
our trust we’ll bind

to our NJIT.

We’ll hold your memory ever dear,
your spirit we’ll revere.

To you we’ll promise loyalty,
our own NJIT.