COMMENCEMENT
CEREMONY 2012

May Fifteenth
Two Thousand and Twelve
Prudential Center
Newark, New Jersey
Welcome to the 2012 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 2012 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!
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.
## UNIVERSITY CEREMONY

<table>
<thead>
<tr>
<th>Role</th>
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<tr>
<td>Class Crier</td>
<td>Kimberly Lam ’12</td>
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<td></td>
<td>Senior Class President</td>
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<tr>
<td>Grand Marshal and Mace Bearer</td>
<td>Jack Gentul, Interim Vice President</td>
</tr>
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<td>for Academic and Student Services,</td>
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<td>Dean of Students</td>
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<td>Distinguished Faculty</td>
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<td>Golden Highlanders</td>
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<td>Bagpiper</td>
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<td>Honored Guests</td>
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<td>Presidential Party</td>
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<td>AFROTC Detachment 490</td>
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<td>Color Guard</td>
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<td>Presiding</td>
<td>Joel S. Bloom, President</td>
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<td>Presentation of Colors</td>
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<td>The National Anthem</td>
<td>Newark Boys Chorus</td>
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<td>Greetings</td>
<td>Joel S. Bloom, President</td>
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<td>Speaker</td>
<td>Joseph G. Stanley ’78, ’85, President</td>
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<td></td>
<td>NJIT Alumni Association</td>
</tr>
<tr>
<td>Speaker</td>
<td>Tessy Thomas ’12</td>
</tr>
<tr>
<td></td>
<td>Student Senate President</td>
</tr>
</tbody>
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Listing of the Candidates for Baccalaureate Degrees begins on page 34.  
Listing of the Candidates for Master’s Degrees begins on page 24.
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<td>Kathleen Wielkopolski, Chair</td>
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<td>Board of Trustees</td>
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<td>Mary Sue Sweeney Price</td>
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<td></td>
<td>Director and Chief Executive Officer</td>
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<td></td>
<td>The Newark Museum</td>
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<td></td>
<td>Javad K. Hassan</td>
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<td>Chairman and Chief Executive Officer</td>
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<td>NeST Group of Companies</td>
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<td>Commencement Address</td>
<td>Javad K. Hassan</td>
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<td>Chairman and Chief Executive Officer</td>
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<td>NeST Group of Companies</td>
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<td>Interlude</td>
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<td>Presentation of Candidates for Doctoral Degrees</td>
<td>Ian Gatley</td>
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<td>Provost and Senior Vice President for Academic Affairs</td>
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<td></td>
<td>Marino Xanthos</td>
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<td>Associate Provost for Graduate Studies</td>
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<td>Presentation of the Hashimoto Prize</td>
<td>Daniel A. Henderson</td>
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<td>Board of Overseers</td>
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<tr>
<td>High GPA Award Presentation</td>
<td>Ian Gatley</td>
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<td></td>
<td>Provost and Senior Vice President for Academic Affairs</td>
</tr>
</tbody>
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Presentation of Candidates for Baccalaureate Degrees and Master's Degrees

<table>
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<tr>
<th>College of Architecture and Design</th>
<th>Urs P. Gauchat, Dean of Architecture and Design</th>
</tr>
</thead>
<tbody>
<tr>
<td>College of Science and Liberal Arts</td>
<td>Fadi P. Deek, Dean of Science and Liberal Arts</td>
</tr>
<tr>
<td>School of Management</td>
<td>Pius J. Egbelu, Dean of Management</td>
</tr>
<tr>
<td>College of Computing Sciences</td>
<td>Narain Gehani, Dean of Computing Sciences</td>
</tr>
<tr>
<td>Newark College of Engineering</td>
<td>Sunil Saigal, Dean of Engineering</td>
</tr>
<tr>
<td>Conferring of Degrees</td>
<td>Kathleen Wielkopolski, Chair of Board of Trustees</td>
</tr>
</tbody>
</table>

Alma Mater

Recessional
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.
Javad K. Hassan began his career at IBM in 1968 as an engineer in its semi-conductor development and manufacturing operations in East Fishkill, New York. In 10 years he became the head of IBM’s semi-conductor development operations, which consisted of over 2,000 engineers and scientists. During this period he obtained over 20 patents in semi-conductor technology for his inventions and was awarded IEEE Fellow status. Subsequently, Hassan held positions as corporate head of engineering and technology at IBM’s world headquarters in New York as well as the head of their storage business, a $6 billion revenue business.

In 1988 Hassan joined AMP Inc., the world’s largest electronic components/connector company, as their corporate head of technology. In his 10-year career with AMP, he diversified the company into fiber-optics and wireless technologies and built that business to over $1.5 billion. He retired from AMP as president of the Global Inter Connect Systems business in 1998 and started his career as an entrepreneur in his own right.

From 1998 until now, Hassan has built a worldwide technology business, The NeST Group, with operations in India, the Middle East, Japan, Europe and Americas. The NeST Group has over 4000 employees, and offers products and technologies in health care (ultrasound systems, MRI equipment, PAC systems, etc.) and green energy (fuel cells, wind turbine control systems, wireless and fiber-optic communications systems). The NeST Group’s worldwide customers include GE, Toshiba, Hitachi, ABB, Verizon, Honeywell, France Telecom, and Etisalat. Last year, NJIT and NeST signed an agreement to offer a post-graduate program in Global Technology Management at NeST headquarters in southwestern India. In addition, NJIT and NeST are exploring opportunities to bring intellectual prosperity to commercialization. The NeST Group’s corporate headquarters is located in Chantilly, Virginia. Hassan resides in McLean, Virginia.

In recognition of his distinctive accomplishments as a leader and visionary in the world of technology companies, New Jersey Institute of Technology is pleased to confer the degree of Doctor of Science, honoris causa, upon Javad K. Hassan.
THE DEGREE OF DOCTOR OF HUMANE LETTERS, HONORIS CAUSA

Presented to

MARY SUE SWEENEY PRICE
DIRECTOR AND CHIEF EXECUTIVE OFFICER
THE NEWARK MUSEUM

Mary Sue Sweeney Price was appointed sixth director of The Newark Museum in 1993. The Museum, which has just celebrated its centennial, is nationally recognized for its collections, architecture, and historic commitment to education and access. Price has overseen several museum expansions, including the restoration and reinterpretation of the Victorian-era Ballantine House, a National Historic Landmark, and the creation of interactive natural science galleries, “Dynamic Earth: Revealing Nature's Secrets.” The Museum has recently begun a Signature Project for expansion designed by its longstanding architect, Michael Graves. Mr. Graves was the architect for Laurel Hall on the NJIT campus.

Important exhibitions organized under Price’s leadership include “Crowning Glory: Images of the Virgin in the Arts of Portugal;” “Wrapped in Pride: Ghanaian Kente and African American Identity;” “Picturing America,” the contextual reinstallation of the museum’s outstanding American art collection, and most recently “Constructive Spirit: Abstract Art in South and North America.” Price is past president of the Association of Art Museum Directors (AAMD), representing the major art museums in North America, a past president of ArtTable Inc., the national organization for professional women leaders in the visual arts, and a trustee of ArtPride NJ, one of the most effective arts advocacy organizations in the country. She also serves as a commissioner of the American Association of Museums. As director of the Museum, Price has championed The Newark Museum’s pioneering role in STEAM education—science, technology, engineering, art, and mathematics—based on its collections and curatorial strength.

Price is a graduate of Allegheny College and attended Harvard's Publishing Procedures program as well as the AFA/Getty Foundation Museum Leadership Institute. She has received honorary doctorates from Rutgers University, Drew University and Caldwell College, and has been honored by the government of Portugal for contributions to cultural diplomacy. She and her husband, the historian Dr. Clement Alexander Price, Board of Governors Distinguished Professor at Rutgers University, live in downtown Newark's historic Lincoln Park district.

In recognition of her outstanding career as a highly respected museum leader and for her efforts to improve the Newark community, New Jersey Institute of Technology is pleased to confer the degree of Doctor of Humane Letters, honoris causa, upon Mary Sue Sweeney Price.
THE HASHIMOTO PRIZE
Presented to
NAN WANG ’98, ’11

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 recipient of the Hashimoto Prize is Nan Wang, an outstanding scholar who has 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)

Yixuan Li
BS Theoretical and Applied Mechanics, Beijing University, Beijing, People’s Republic of China
Dissertation:
*Evolution of 3-D Magnetic Topology in Flare-Productive Active Regions*
Advisors:
Ju Jing, PhD
Haimin Wang, PhD

† Ke Su
BS Applied Physics, Zhengzhou University, Zhengzhou, People’s Republic of China
MS Materials Science, Fudan University, Shanghai, People’s Republic of China
Dissertation:
Terahertz Wireless Communication
Advisor:
John F. Federici, PhD

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

* Khyati Shah
BS Microbiology and Biochemistry, South Indian Education Society College of Arts, Science and Commerce, Mumbai, India
MS Biochemistry, South Indian Education Society College of Arts, Science and Commerce, Mumbai, India
Dissertation:
*Consequences of Stochastic mRNA Synthesis in a Gene Regulatory Pathway*
Advisors:
Farzan Nadim, PhD
Sanjay Tyagi, PhD

† — August 2011 graduates
* — January 2012 graduates
Megan D. Damcott
BS Biomedical Engineering, University of Rochester, Rochester, New York
MS Biomedical Engineering, New Jersey Institute of Technology, Newark, New Jersey

Dissertation:
The Impact of Dynamic and Passive Standing on the Bone Mineral Density and Appositional Growth in Immobilized Children

Advisor:
Richard A. Foulds, PhD

Eun Hwa Kim
BS Biomedical Engineering, New Jersey Institute of Technology, Newark, New Jersey

Dissertation:
Phoria: A Key to Understanding Variability and Adaptability of the Disparity-Vergence System with Clinical Applications in Asthenopia, Progressive Lens Acceptability and Acquired Brain Injuries

Advisor:
Tara Alvarez, PhD

David N. Paglia
BS Mechanical Engineering, Manhattan College, Riverdale, New York
MS Biomedical Engineering, New Jersey Institute of Technology, Newark, New Jersey

Dissertation:
Application of Local Insulin and Insulin-Mimetic Agents to Accelerate Osseous Healing

Advisor:
Sheldon S. Lin, PhD

Qinyin Qiu
BS Computer Engineering, Hangzhou Institute of Technology
MS Biomedical Engineering, New Jersey Institute of Technology, Newark, New Jersey
MS Computer Engineering, University of Southern California, Los Angeles, California

Dissertation:
Upper Extremity Rehabilitation Using Interactive Environments

Advisor:
Sergei Adamovich, PhD

Darnell Simon
BS Engineering Science, New Jersey Institute of Technology, Newark, New Jersey
MS Mechanical Engineering, New Jersey Institute of Technology, Newark, New Jersey

Dissertation:
Cerebral Spasticity Modeled as Disordered Equilibrium Point Control

Advisor:
Richard A. Foulds, PhD
CHEMICAL ENGINEERING

† Laila Jai Jallo  
BS Chemical Engineering, University of Science and Technology, Kumasi, Ghana  
MS Pharmaceutical Engineering, New Jersey Institute of Technology, Newark, New Jersey  
Dissertation:  
Effects of Powder Property Modification on Particle and Bulk Scale Characteristics  
Advisor:  
Rajesh N. Dave, PhD

† Shilan Motamedvaziri  
BS Chemical Engineering, Isfahan University of Technology, Isfahan, Iran  
Dissertation:  
Single and Multiphase Mixing in Partially Filled Stirred Vessels  
Advisor:  
Piero M. Armenante, PhD

Zheng Qian  
BS Chemical Engineering, Zhejiang University, Hangzhou, People's Republic of China  
Dissertation:  
Investigation of the Fracture Phenomena during the Milling Process of Inorganic Particles and Brittle Fracture of Polymer Composites Using Fractal Theory  
Advisor:  
Costas C. Gogos, PhD

Dhananjay Singh  
BS Chemical Engineering, Banaras Hindu University, Varanasi, India  
MS Materials Science, Indian Institute of Technology, Kanpur, India  
Dissertation:  
Desalination of Brine and Produced Water by Membrane Distillation at Lower as Well as Higher Temperatures and Pressures  
Advisor:  
Kamalesh K. Sirkar, PhD

† Demitrios Stamatis  
BS Mechanical Engineering, New Jersey Institute of Technology, Newark, New Jersey  
MS Mechanical Engineering, New Jersey Institute of Technology, Newark, New Jersey  
Dissertation:  
Multifunctional Reactive Nanocomposite Materials  
Advisor:  
Edward L. Dreizin, PhD
† Naga Lashmi R. Susarla  
BS Chemical Engineering, Chaitanya Bharati Institute of Technology, Hyderabad, India  
MS Chemical Engineering, New Jersey Institute of Technology, Newark, New Jersey  
Dissertation:  
*Theoretical Prediction of Drug Release in GI Tract from Spherical Matrix Systems*  
Advisor:  
Norman W. Loney, PhD

† Yimin Wang  
BS Materials Science and Engineering, East China University of Science and Technology, Shanghai, People’s Republic of China  
Dissertation:  
*Effects of Operating and Geometric Variables on Hydrodynamics and Tablet Dissolution in Standard and Modified Dissolution Testing Apparatuses*  
Advisor:  
Piero M. Armenante, PhD

CHEMISTRY  
† Anitha Patlolla  
BS Chemistry, Osmania University, Hyderabad, India  
MS Chemistry, University of Pune, Pune, India  
Dissertation:  
*Polydiacetylene- and Carbon Nanotube-based Temperature and Chemical Sensors*  
Advisors:  
Tamara Gund, PhD  
Zafar Iqbal, PhD

CIVIL ENGINEERING  
† Shengyan Gao  
BS Civil Engineering, Xi’an University of Technology, Shaanxi, People’s Republic of China  
MS Civil Engineering, Tsinghua University, Beijing, People’s Republic of China  
Dissertation:  
*Micromechanical Study of Two-Phase Flow during Air Sparging*  
Advisors:  
Limin Hu, PhD  
Jay N. Meegoda, PhD
CANDIDATES FOR DOCTORAL DEGREES

COMPUTER ENGINEERING

Spiridon F. Beldianu
BS Electrical Engineering, Gheorghe Asashi Technical University, Iasi, Romania
MS Electrical Engineering, Gheorghe Asashi Technical University, Iasi, Romania
Dissertation:
Vector Coprocessor Sharing Techniques for Multicores: Performance and Energy Gains
Advisor:
Sotirios G. Ziavras, PhD

• Brian D’Alessandro
BS Computer Engineering, New Jersey Institute of Technology, Newark, New Jersey
MS Computer Engineering, New Jersey Institute of Technology, Newark, New Jersey
Dissertation:
Multispectral Imaging of Skin Lesions for Volumetric Chromophore Qualification
Advisor:
Atam P. Dhawan, PhD

COMPUTER SCIENCE

Chandralekha De
BS Computer Science Engineering and Applications, National Institute of Technology, Rourkela, Orissa, India
Dissertation:
Example-based Texture Synthesis and Quantification of Texture Quality
Advisor:
Frank Y. Shih, PhD

Venkata G. Edupuganti
BS Information Technology, Jawaharlal Nehru Technology University, Hyderabad, India
MS Information Technology, University of Hyderabad, India
Dissertation:
Registration and Categorization of Camera Captured Documents
Advisor:
Frank Y. Shih, PhD

† Aleksey Koval
BS Computer Science, Kean University, Union, New Jersey
MS Applied Statistics, Rutgers University, New Brunswick, New Jersey
MS Computer Science, New Jersey Institute of Technology, Newark, New Jersey
Dissertation:
Security Systems Based on Gaussian Integers: Analysis of Basic Operations and Time Complexity of Secret Transformations
Advisor:
Boris Verkhovsky, PhD
Tian Tian  
BS Computer Science, Beijing University of Posts and Telecommunications, Tianjin, People’s Republic of China  
Dissertation:  
Using an Ontology to Improve the Web Search Experience  
Advisor:  
James Geller, PhD

† Abhishek Verma  
BS Commerce, University of Delhi, New Delhi, India  
MS Computer Applications, Bangalore University, Bangalore, India  
MS Computer Science, New Jersey Institute of Technology, Newark, New Jersey  
Dissertation:  
Investigation of Advanced Image Search Techniques  
Advisor:  
Chenjung Liu, PhD

Yue Wang  
BS Computer Engineering, Soochow University, Suzhou, People’s Republic of China  
MS Computer Science, Shanghai Jiao Tong University, Shanghai, People’s Republic of China  
MS Health Information Informatics, University of Texas-Houston Health Science Center, Houston, Texas  
Dissertation:  
Structural Analysis and Auditing of SNOMED Hierarchies Using Abstraction Networks  
Advisors:  
Michael Halper, PhD  
Yehoshua Perl, PhD

† Duo Wei  
BS Computer Science, Changchun Normal University, Changchun, People’s Republic of China  
Dissertation:  
Extensions of SNOMED Taxonomy Abstraction Networks Supporting Auditing and Complexity Analysis  
Advisors:  
Michael Halper, PhD  
Yehoshua Perl, PhD
ELECTRICAL ENGINEERING

• Charlotte Blair  
  BS Electrical Engineering, Rutgers University-College of Engineering, New Brunswick, New Jersey  
  MS Electrical Engineering, New Jersey Institute of Technology, Newark, New Jersey  
  Dissertation:  
  Analysis of a Composite Dielectric-Ferrite Loaded Resonator using the Transmission Line Model with Application to a Tunable Dual Mode BandPass Filter  
  Advisors  
  Edip Niver, PhD  
  Richard Snyder, PhD

• Vinay Budhraja  
  BS Electronic and Communication Engineering, Institute of Engineering and Technology, Kanpur, India  
  MS Materials Science Programme, Indian Institute of Technology, Kanpur, India  
  Dissertation:  
  Influence of Defects and Impurities on Solar Cell Performance  
  Advisors:  
  Durgamadhab Misra, PhD  
  Nuggehalli M. Ravindra, PhD

• Jin Soo Choi  
  BS Electrical Engineering, Hannam University, Daejon, Republic of Korea  
  MS Electrical Engineering, New Jersey Institute of Technology, Newark, New Jersey  
  Dissertation:  
  Wireless Sensor Network for Health Monitoring  
  Advisor:  
  Mengchu Zhou, PhD

• Vlad-Mihai Chiriac  
  BS Electrical Engineering, Gheorghe Asachi University, Iasi, Romania  
  MS Electrical Engineering, Gheorghe Asachi University, Iasi, Romania  
  Dissertation:  
  Target Localization in Passive and Active Systems: Performance Bounds  
  Advisor:  
  Alexander M. Haimovich, PhD

• Ciprian-Romeo Comsa  
  BS Electrical Engineering, Technical University, Gheorghe Asachi of Iasi, Romania  
  MS Electrical Engineering, Technical University, Gheorghe Asachi of Iasi, Romania  
  Dissertation:  
  Source Localization via Time Difference of Arrival  
  Advisor:  
  Alexander M. Haimovich, PhD
* Tariq Elkourdi  
BS Communications and Electronics Applied Science University, Amman, Jordan  
Dissertation:  
Distributed Spectrum Leasing via Cooperation  
Advisor:  
Osvaldo Simeone, PhD

* Amir Laufer  
BS Electrical and Electronic Engineering, Tel Aviv University, Tel Aviv, Israel  
MS Electrical and Electronic Engineering, Tel Aviv University, Tel Aviv, Israel  
Dissertation:  
High Rate Space Time Code with Linear Decoding Complexity for Multiple Transmitting Antennas  
Advisor:  
Yeheskel Bar-Ness, PhD

† Wei Shi  
BS Electrical Engineering, Nanjing University of Aeronautics and Astronautics, Nanjing, People’s Republic of China  
MS Electrical Engineering, Hebei University of Technology, Tianjin, People’s Republic of China  
Dissertation:  
Advanced Intelligent Control and Optimization for Cardiac Pacemaker Systems  
Advisor:  
Mengchu Zhou, PhD

Patchara Sutthiwan  
BE Electrical Engineering, Chulalongkorn University, Bangkok, Thailand  
MS Electrical Engineering, New Jersey Institute of Technology, Newark, New Jersey  
Dissertation:  
Image Statistical Frameworks for Digital Image Forensics  
Advisor:  
Yun Q. Shi, PhD
† Nan Wang
BS Electrical Engineering, National Chen-Kung University, Tainan, Taiwan
MS Electrical Engineering, New Jersey Institute of Technology, Newark, New Jersey
Dissertation:
Efficient Packet Delivery in Modern Communication Networks
Advisor:
Nirwan Ansari, PhD

Jing Yang
BS Electrical and Computer Engineering, East China University of Science and Technology, Shanghai, People’s Republic of China
MS Science in Automation, Tsinghua University, Beijing, People’s Republic of China
Dissertation:
Driver Behavior Classification and Lateral Control for Automobile Safety Systems
Advisors:
Edwin Hou, PhD
Mengchu Zhou, PhD

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

Susana Addo Ntim
BS Chemistry, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana
MS Marine Estuarine Environmental Science, University of Maryland Eastern Shore, Princess Anne, Maryland
Dissertation:
Dispersibility of and Adsorption on Functionalized Carbon Nanotubes
Advisor:
Somenath Mitra, PhD

Sherestha Saini
BS Environmental Science, Delhi University, Delhi, India
MS Environmental Science, Jiwaji University, Gwalior, Madhya Pradesh, India
Dissertation:
Transport of Terrigenous Sediment and Horseshoe Crab Eggs in the Swash Zone of an Estuarine Foreshore in Delaware Bay, New Jersey
Advisor:
Nancy L. Jackson, PhD
INFORMATION SYSTEMS

Babajide J. Osatuyi
BS Computational Science, State University of New York, College at Brockport, New York

Dissertation:
Effects of Information Importance and Distribution on Information Exchange in Team Decision-Making

Advisors:
Jerry Fjermestad, PhD
Starr-Roxanne Hiltz, PhD

MATERIALS SCIENCE AND ENGINEERING

* Wycliffe A. Graham
BS Natural Sciences, University of the West Indies, Mona, Jamaica West Indies
MA Philosophy in Physics, University of the West Indies, Mona, Jamaica West Indies

Dissertation:
Synthesis, Molecular and Solid State Structures, and Magnetic Properties of Sandwich Lanthanide Phthalocyanines Lacking C-H Bonds

Advisors:
Joseph Bozelli, PhD
Trevor A. Tyson, PhD

Yuki Imura
BS Biomedical Engineering, Rensselaer Polytechnic Institute, Troy, New York
MS Materials Science and Engineering, New Jersey Institute of Technology, Newark, New Jersey

Dissertation:
The Incorporation of Electrohydrodynamics and Other Modifications into a Dry Spinning Model to Develop a Theoretical Framework for Electrospinning

Advisors:
Michael Jaffe, PhD
Nuggehalli M. Ravindra, PhD

Hamed Kazerani
BS Materials Science and Engineering, Ferdowsi University of Mashhad, Mashhad, Iran
MS Materials Science and Engineering, New Jersey Institute of Technology, Newark, New Jersey

Dissertation:
Inkjet Printing of Resistive-Type Humidity Sensor for Harsh Environments

Advisor:
John F. Federici, PhD
‡ Jinwen Liu
BS Materials Science and Engineering, Wuhan University of Technology, Wuhan, People's Republic of China
Dissertation:
Synthesis and Development of Boron Nanotubes and Metal/Ceramic-Carbon Nanotube Composites
Advisors:
Zafar Iqbal, PhD
Naggehalli M. Ravindra, PhD

Andrei I. Loas
BS Chemical Engineering, Polytechnic University of Bucharest, Romania
Dissertation:
Rational Design of Hydrogen-Free Catalytic Active Sites
Advisors:
Sergiu M. Gorun, PhD
Naggehalli M. Ravindra, PhD

* Yuhao Wang
BS Computer Science, Beijing, People's Republic of China
MS Material Science and Engineering, the Chinese University of Hong Kong, People's Republic of China
Dissertation:
Advisors:
Jianming Bai, PhD
Trevor A. Tyson, PhD
Xiaoni Fang
BS Information and Computational Science, Beijing Jiaotong University, Beijing, People’s Republic of China
MS Mathematics, Oklahoma State University, Stillwater, Oklahoma
Dissertation:
Energy Propagation in Jammed Granular Matter
Advisor:
Lou Kondic, PhD

Daniel Fong
BS Computer Science, New Jersey Institute of Technology, Newark, New Jersey
BS Mathematical Sciences, New Jersey Institute of Technology, Newark, New Jersey
Dissertation:
Mathematical Models of Combustion at High Pressure
Advisor:
John K. Bechtold, PhD

Rashi Jain
MS Mathematics, Indian Institute of Technology, Delhi, India
MS Applied Mathematics, New Jersey Institute of Technology, Newark, New Jersey
Dissertation:
Sequential Bayesian Filtering for Spatial Arrival Time Estimation
Advisor:
Zoi-Heleni Michalopoulou, PhD

Dongwook Kim
BS Mathematics, Chung-Ang University, Seoul, Korea
MS Mathematics, University of Georgia, Athens, Georgia
Dissertation:
The Effects of Periodic and Non-Periodic Inputs on the Dynamics of a Medial Entorhinal Cortex Layer II Stellate Cell Model
Advisor:
Horacio Rotstein, PhD
Te-Sheng Lin  
BS Mathematics, National Chung-Cheng University, Chia-Yi, Taiwan  
MS Applied Mathematics, National Chung-Cheng University, Chia-Yi, Taiwan  
Dissertation:  
*Instabilities in Newtonian Films and Nematic Liquid Crystal Droplets*  
Advisors:  
*Linda J. Cummings, PhD*  
*Lou Kondic, PhD*  

Xing Zhong  
BS Mathematics and Physics, Tsinghua University, Beijing, People's Republic of China  
MS Mathematics, Tsinghua University, Beijing, People's Republic of China  
Dissertation:  
*Energy Methods for Reaction-Diffusion Problems*  
Advisor:  
*Cyrill B. Muratov, PhD*  

**MECHANICAL ENGINEERING**

Bhavin Dalal  
BS Mechanical Engineering, Gujarat University, Gujarat, India  
MS Mechanical Engineering, Bradley University, Peoria, Illinois  
Dissertation:  
*Absorption of Particles on Fluid-Liquid Interfaces*  
Advisors:  
*Ian Fischer, PhD*  
*Pushpendra Singh, PhD*  

*Sathishkumar Gurupatham*  
BS Mechanical Engineering, Thanthai Periyar Government Institute of Technology, India  
Dissertation:  
*Dispersion of Particles on Liquid Surfaces*  
Advisors:  
*Ian S. Fischer, PhD*  
*Pushpendra Singh, PhD*  

Raivat B. Patel  
BS Mechanical Engineering, North Gujarat University, Mehsana, India  
MS Mechanical Engineering, New Jersey Institute of Technology, Newark, New Jersey  
Dissertation:  
*Liquid Wetting and Bridging of Particles by Spray Impingement*  
Advisor:  
*Chao Zhu, PhD*
Michael C. Brown
BS Management Studies, University of the West Indies, Mona
MS Development and Planning, University College, London, England
Dissertation:
From “Projects” To Houses: Physical Redevelopment, Poverty Deconcentration and Resident Self-Sufficiency at Hope VI Developments in Camden, New Jersey
Advisor:
Karen A. Franck, PhD

Colette Santasiere
BS Environmental Planning and Design, Cook College, Rutgers University, New Brunswick, New Jersey
MS Civil Engineering, New Jersey Institute of Technology, Newark, New Jersey
Dissertation:
Port of Call or Port of Conflict: The Evolution of the Port of New York and New Jersey, Port-City Relationships, and the Potential for Land Use Conflicts on the Newark Bay Waterfront
Advisor:
Karen A. Franck, PhD
# Candidates for Master's Degrees

## Newark College of Engineering

### Master of Science

#### Bioelectronic Engineering
- Grace Lee
- Ankur Rajeshkumar Mehta
- Eric V. Nilsson
- Rui Yuan

#### Biomedical Engineering
- Tagwa Abdallah
- Aamir Ahmed
- Mustafa H. Alqudah
- Mahmoud Altayeb
- Phanindr Auckloo
- Mohammad Awawdeh
- Aditya R. Bhosale
- Gabrielle Busto
- Daniel J. Carrino
- Prathiba Chandrasekaran
- Sura Elavazhagan
- Mohammad Awawdeh
- Aditya R. Bhosale
- Gabrielle Busto
- Daniel J. Carrino
- Prathiba Chandrasekaran
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- Mohammad Awawdeh
- Aditya R. Bhosale
- Gabrielle Busto
- Daniel J. Carrino
- Prathiba Chandrasekaran
- Sura Elavazhagan

#### Chemical Engineering
- Dhanya Abraham
- Carlo F. Badiola
- Malachy Chibuzo Eke
- Parag Gupta
- Yingxu Jin
- Paul J. Kirkpatrick
- Nikolaj Marin
- Shilan Motamedvaziri
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- Gbenga M. Omolowo
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- Kevin A. Patel
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- Yun Tian
- Kristopher P. Weatherby
- Qi Yan
- Guangyu Zhang

#### Civil Engineering
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- Aldo J. Badillo
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- Sameer Ahmed Mohammed
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- Bhavesh A. Patel
- Curtis W. Pelan
- Jessica D. Pereira

† — August 2011 graduates
* — January 2012 graduates
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COMPUTER ENGINEERING
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* Shengxiao Zhou

CRITICAL INFRASTRUCTURE SYSTEMS
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Chen Yang
* Hongrui Yu
Yike Zhao
Zhebin Zhao
* Peng Zheng
Yu Zheng
* Changli Zhou
Zhongyuan Zhou

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* Hsin-Yen Hsieh
* Natasha A. Matrung
Andrew Pursell
† Janani Ramkumar
* Manvi Saran
* Mark Shenoda
Ryan L. Smith
Sherwin Ulep
* Qiuming Zheng

HEALTHCARE SYSTEMS MANAGEMENT
Anima Bhattachan
* Guylaine N. Ngatchou
Carol Sinclair
* Peter F. Wagidoso

INDUSTRIAL ENGINEERING
* Victor H. Alzamora
* Vikas Rai Chaudhary
Shih-Shin Chiang
Alex A. Hernandez
Ahmed S. Khalil
* Ernest A. Lee
Ikechukwu B. Nwoga
Ogbite B. Odiale
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Haris R. Patel
Tushar V. Patel
Vipul S. Patil
* Varun M. Sawant
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Joseph M. Wright
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<tr>
<th>PHARMACEUTICAL SYSTEMS MANAGEMENT</th>
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<tbody>
<tr>
<td>Ravin Narenbhai Amin</td>
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<td>James J. Caristia</td>
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<td>* Alicia Groover</td>
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MASTER OF ARCHITECTURE

Thomas Asfor
Juan A. Ayala
Christine A. Berdahl
Ketaki Kedar Bhate
Kathleen D. Como
Kevin A. Evanko
Tina Gega
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Travis M. Pummer
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Yifan Wang
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* Randeep Singh Kukreja
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Tong Wu
Fan Yu
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Shamahil Zuhfer

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Prasertsak Boonyaprapa
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* Siva K. Patnam
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- Nisha M. Patel

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- Yuchen Guo
- Rahul V. Gupta
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- Qingyang Hu
- Weicheng Hu
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- Prashant Mohan Joshi
- Venkata Chaithanya Krishna
- Kajur
- Kushaal Karwa
- Sebastian Kayatas
- Srikanth Krishnan
- Sujitha Kumar
- Sri V. Kummaripurugu
- Hemant Surana Lalith Kumar
- Sree H. Lanka
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- Yuan Lin
- Ting Liu
- Siyuan Lu
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- Padmavathi S. Medicherla
- Robert T. Morrell
- Prem Kumar Narayanappa
- Venkatesh
- Nixon Otieno Owaga
- Sanchet S. Pachpute
- Srivalli Paladugu
- Harsha Vyasa S. Palli
- Pawan Panjwani
- Nitin Panuganti
- Niravkumar M. Patel
- Vallari Patel
- Kaushikumar Prajapati
- Swetha RamaPriya
- Usha Rao Derebail
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<tr>
<td>* Karim S. Afifi</td>
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<td>Farhan Javed</td>
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## BACHELOR OF SCIENCE

### BIOMEDICAL ENGINEERING

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<tr>
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<td>* Jimi Patel</td>
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<td>Satyam J. Patel</td>
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<td>* Kokulam Vanniyasingam</td>
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<td>Warminster, PA</td>
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<td>Yun Yi</td>
<td>Riverdale</td>
</tr>
<tr>
<td>Mary Youssef</td>
<td>Fair Lawn</td>
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</table>

† — August 2011 graduates
* — January 2012 graduates
### CHEMICAL ENGINEERING

<table>
<thead>
<tr>
<th>Name</th>
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<tbody>
<tr>
<td>Marina N. Abraham</td>
<td>Edison</td>
</tr>
<tr>
<td>Mohamed Ahmed</td>
<td>Piscataway</td>
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<tr>
<td>Sarah O. Akinlabi</td>
<td>Fort Myers, FL</td>
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<td>* Mohammad Alhelo</td>
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<td>Morganville</td>
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<td>Nadia Oulahbib</td>
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<td>Chhayesh A. Patel</td>
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<td>Jeremy M. Peters</td>
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<td>Richard V. Petrovino</td>
<td>Toms River</td>
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<td>Jersey City</td>
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<td>Jimmy N. Rodriguez</td>
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<td>* Nabeel M. Samra</td>
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<td>* Bryan M. Sutphen</td>
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<td>David M. Thompson</td>
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<tr>
<td>Emanuel J. Vizzotti</td>
<td>Woodbridge</td>
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<tr>
<td>* Tuan L. Vo</td>
<td>Bridgewater</td>
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### CIVIL ENGINEERING

<table>
<thead>
<tr>
<th>Name</th>
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<tbody>
<tr>
<td>Achraf Abbassi</td>
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<tr>
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<td>Jared David Alamo Arzena</td>
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CANDIDATES FOR BACCALAUREATE DEGREES

COMPUTER ENGINEERING

Jonathan D. Villa Gonzales
Belleville
Jeffy Vorasiththanukul
Nutley
Jeremy A. Zahn
Whiting
Luz A. Zidziunas
West Orange
Seth M. Zubatkin
Hillborough
Joseph F. Zummo
Howell

Joshua V. Abbate
Colts Neck
Bahaa A. Abdelaziz
Springfield
Ahmed Abdelsayed
Jersey City
Roksana Afroz
Elizabeth
Johnny B. Aguair
Hackensack
Peramanayagam Bhagavathi
Elmwood Park
Sameh M. Boulos
Elizabeth
Ali Charaf
Teaneck
Sujith Cherian
 Parsippany
Terry V. Christensen
Lakewood
Papa N. Ciss
Jersey City
Adisa R. Craig
Brooklyn, NY
Christopher J. Early
Woodbridge
Gokalp Erclasun
San Diego, CA
Claudia M. Hernandez
Rahway

Ryan S. Johnson
Dumont
Bryan Louvado
Kearny
Nikhil Maini
Sayreville
Ariel E. Matos
Cranford
John L. Micale
Highland Park
Gabriel Nieves
Trenton
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Hoboken
Jean-Valvert Perard
Irvington
Eric W. Schrumpf
Elmwood Park
Javier Vasques
Cedar Grove
Phillip J. Valenty
Neptune
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Manasquan
Chun L. Yeung
Livingston

Elhadji C. Dia
Newark
Josh-Erik Dolisca
Maplewood
Gaston A. Domingo
Union
Paul Dupiano
Union
Jorge A. Escalante
South Amboy
Edgar E. Estrada-Rivera
North Plainfield
John T. Flanagan
North Arlington
William Flannery
Succasunna
Julia M. Gayner
Salem
Konstantin Gerlovin
Livingston
Bernin N. Ghobreal
Union
Mena A. Girgis
Howell
Joshua W. Glawu
Piscataway
Maddiel Gonzalez
West New York
Jose M. Guerrero
Newark
Izhar U. Haq
Jersey City
Lovita Henriquez
Clifton
Daniel Hutt
Teaneck
Carlos Jimenez
Newark
Richard T. Jones
Irvington
Andrew J. Keeling
Lebanon
Henry J. Kelch Jr.
Monroe Township

ELECTRICAL ENGINEERING

Ndubisi Ahukanna
West Orange
Hossain A. Ami
Boonton
Erick Arroyo
Union
Kenneth E. Bachir
Wayne
Kate Boardman
New Providence
Victor E. Bonachea
Elmwood Park
John Budd
Parsippany
Franklin D. Carreno
Passaic
Walther Castrillon
Guttenberg
Marcus E. Crowley
Roselle
Jasmin M. Kelley  
Neptune

Monica R. Lago  
Jersey City

William F. Lavista  
Morris Plains

Darryl E. Lewis  
Secaucus

Zezhi Li  
Edison

Carla R. Lopez  
Roselle

Tom S. Mathew  
Livingston

* Jose J. Mejia  
Haledon

James C. Millar  
Belleville

Antoine J. Mohsen  
Elmwood Park

* Dawit Mulat  
Sayreville

Faizan H. Naqvi  
Kearny

George Osei  
Newark

• Bimal Kumar S. Patel  
Piscataway

Robert J. Pickel  
River Edge

• Sterling Prince  
East Orange

• Amrit Ramjattan  
Englewood

Brian A. Ribeiro  
Newark

• Roger Saborido  
Jersey City

Charles S. Said  
Bayonne

Nirmal Shah  
Roselle Park

Rashed Sikandar  
Elmwood Park

Justin Sison  
Iselin

* Nisharg R. Sutaria  
Edison

Andrew Tadros  
Bayonne

* Betsabeth J. Tobar  
West New York

Johnpaul A. Valentino  
Middletown

† Roberto C. Ventura  
West New York

Oscar G. Victorero  
Roselle Park

* Abdul W. Zafar  
Harrison

* Lihui Zhou  
Lawrenceville

** ENGINEERING SCIENCE **

Glorianna A. Fernandez  
Newark

Steven V. Iacoviello  
Raritan Ridge

Mary A. Munoz  
Barnegat

* Vrajeshri J. Patel  
Union

** ENGINEERING TECHNOLOGY **

Computer Technology Option

Abhishek A. Agrawal  
Parsippany

Shadi A. Arbali  
Paterson

Jose G. Blanco  
Teaneck

Christopher J. Confredo  
Delran

* Andres Faciolince  
Ridgefield Park

Dele G. Fakinele  
North Brunswick

Edwin Flores  
Guttenberg

† Yvon I. Groeneveldt  
Jersey City

Rinaldy A. Gutierrez  
South River

Jeffrey Hazar  
Old Bridge

Eugene Ivchenko  
Marlboro

† Patrice K. Jagoo  
Morristown

Ted W. Jarosinski  
Fair Lawn

Angel M. Lopez  
Hawthorne

† Yacine Madi  
Clifton

* Roque J. Rodriguez  
Perth Amboy

† Christopher Stavrinou  
Clifton

* Maria L. Zuniga  
Newark

Concrete Industry Management Technology Option

Wilton J. Arellano  
Bayville

† Ihab S. Elwakkad  
East Brunswick

Shrief A. Ghobrial  
Mahwah

Christopher R. Klemensowicz  
Totowa

† Fady Pauls  
Jackson

† Julio M. Pecho  
Suffern, NY

Christopher L. Worthington  
South Amboy

Construction Engineering Technology Option

Richard K. Adomako  
Union

Freddy A. Amouzou  
Elizabeth

* Jacob M. Arnold  
Nutley

† Ralph Austin  
West Orange

† Kemal A. Baycora  
Paterson

Jerry Chrysostome  
Rahway

† David J. Colella  
North Haledon

Johnny A. Cruz  
New Brunswick
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**INDUSTRIAL ENGINEERING**

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### BACHELOR OF SCIENCE

#### ARCHITECTURE

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#### INDUSTRIAL DESIGN

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BACHELOR OF ARTS

DIGITAL DESIGN
Bianna I. Cruz
Passaic
Benjamin C. Gross
Lambertville
Daniel Palma
Clifton
Stephanie E. Thompson
Belleville

INTERIOR DESIGN
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Newark
Peter Khalil
Mahwah
Hyungshin Kim
Closter
Macarena A. Maldonado
Lakewood
Christopher M. Mayer
West Paterson
Tristan Pashalian
Aspen by the Sea

Adam J. Raiffe
Warren
Banafsheh Soltani
Wyckoff
Daniel Sosa
East Windsor
Ildi I. Torres
Jersey City
Jessica R. Uhlik
Clifton
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COLLEGE OF SCIENCE AND LIBERAL ARTS

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Caldwell
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Jennifer J. Olsztyn
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Montvale
Sean B. Tanner
North Haledon

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Jersey City
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Wayne
Mayce Saleh
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Surya A. Saripalli
Dayton
Kruti Shah
Parsiippan
Enas M. Shehadeh
Passaic
Audrey E. Snell
Bogota
Sandhya Venkataraman
Kendall Park
Ross I. Young
Massapequa

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Wayne
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Newark
* Dinaa Kamal Yassin
Clifton
Seojung Kim
Ridgefield
Prem Patel
Edison

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North Plainfield
Angel Cruz
Jersey City
Tiffany E. Demiris
Roselle Park
Saham Elmalak
Bayonne
Victoria L. Gill
Mahwah
Jennifer M. Kalkczewski
West Deptford
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Newton
* Raymond Robinson III
East Orange
* Hala A. Taha
Watchung
* David M. Tress
Ridgefield
Brian A. Vigario
Newark
* Jamil E. Wilkins
Irvington
Marie Zoghbi
Highland Park

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Ashay S. Mehta
Rahway
Yanal Merza
Prospect Park
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Maywood
Dhurumkumar D. Patel
Parsippany
* Jonathan M. Salazar
Jersey City
Gira D. Shukla
Budd Lake
Rebeca T. Solorzano
West New York
Chintan G. Suthar
Edison
Tessy S. Thomas
Monroe, CT
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Katherine E. Eldridge
Ridgewood
Adam C. Forbes
Blue Anchor
• Emilie Hillebrand
Boonton
Pawel Jakobik
Garfield
Anthony D. Jones
Union City
• Eric D. Oliver
Wyckoff
Ailema A. Paguntalan
Kenilworth
Yusuf B. Rimawi
Clifton
Sundeep K. Sharma
Belleville

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Warren
Mudafiu Akande
Newark
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Bergenfield
Diana P. Analuisa
Springfield
Oscar E. Bueno
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Lakehurst

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Gorqui D. Chica
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Zhuo Jiang
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• Agnes M. Kimani
Union
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Cliffside Park
• Christopher Leung
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Yuwen Liang
Old Bridge
Travis Montague
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Avenel
Sean P. Naughton
Iselin
Joseph Nguyen
Somerville
Osvaldo Padilla
Harrison
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Edison
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Hardwick
• Juan F. Pineda
Belleville
Kodjovi A. Quenum
Newark
Nandish Shah
Bayonne
• James A. Wintjen
Hazlet

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Fairfield
Melissa C. Bauer
West Orange
Katelyn A. Brennen
Brick
Danielle L. Covino
Dumont
Deanna M. Croner
Millburn
• Amanda Hefferan
 Parsippany
Milagros Motta
Hawthorne
Daniel Ovalle
Hopatcong
• Puja S. Patel
Marlboro
Lori-Ann Sciachitano
Metuchen
• Joanna L. Veres
Yardville
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Laura E. Adam
North Bergen

Anfal Alkhalaf
Totowa

Shyema A. Alkhalaf
Totowa

Priti M. Amin
Edison

Nilpa D. Chokshi
Parlin

Daniel M. Cron
Rahway

Rachna J. Desai
Parlin

Farid G. Eid
Kendall Park

Ali Elsaied
Marlboro

Christopher S. Fawzy
East Brunswick

Hajere J. Gatollari
Lodi

Mousa K. Hamad
Clifton

Ahmad M. Hamdeh
Clifton

Sana Hedhli
Clifton

Danial Khan
Matawan

Ibrahim Z. Khokhar
Bayonne

Alisa R. Kumar
Kearny

Christopher S. Kuriakose
Morris Plains

Pin W. Lai
Holmdel

Agnes Lui
Secaucus

Michal Malarowski
Jersey City

Leanne M. Marano
Newark

Tanya A. Masand
East Norwich, NY

Sadie J. Mele
Rio Rancho, NM

Ugonna Omeronye
Marlton

Abena A. Owusu-Banahene
Mount Laurel

Monica Pajdak
Wayne

Teresa J. Parayil
Livingston

Gunj H. Patel
Northvale

Hetal D. Patel
Florence

Jay J. Patel
West Orange

Steeve Pierre
Union

Karla I. Roach
West Orange

Jasmine Z. Salaam
Newark

Shadia N. Saleh
Newark

Jackleen W. Samuel
East Brunswick

Kenny Sang
Newark

Neelam Sarwar
Parlin

Lauren Smith
Little Falls

Balaji Sutharsanam
Kendall Park

Shani Varghese
White Plains, NY

Deepa R. Voleti
West Windsor

COMMUNICATION AND MEDIA
(Degree conferred jointly by NJIT and Rutgers-Newark)

Giselle I. Casco
Prospect Park

Drina A. Duryea
Princeton

Franklin D. Lowe
Rahway

Edward J. Wilson
Irvington

HISTORY
(Degree conferred jointly by NJIT and Rutgers-Newark)

Elizabeth A. Bramletta
Irvington

Christopher M. Broschart
Forked River

Kevin Campopiano
Middletown

Luis J. Gonzales
Newark

Kyrsen E. Howell-Harries
Canada

Andrew N. Kirk
Rockaway

Lechire C. McDonald
Bloomfield

Lisandra C. Triscari
Woodbridge

LAW, TECHNOLOGY AND CULTURE

Marquise Hargrove
Belleville

Blan Jarkasi
Haledon

Hedieh Nazeri
Newark
### Candidates for Baccalaureate Degrees

**School of Management**

**Bachelor of Science**

**Business**

- Franklin N. Abazie  
  Newark  
- Haris S. Abbasi  
  Newark  
- Nasser K. Adib  
  Forked River  
- Javeria Ahmad  
  Avenel  
- Pasquale A. Amato  
  Wantage  
- Haris Amjad  
  Colonia  
- Mina Andrews  
  Fords  
- Julia R. Araujo  
  Brazil  
- Malikul A. Aziz  
  Newark  
- Summaya A. Aziz  
  Harrison  
- Glenn E. Barone  
  North Caldwell  
- Joshua T. Basedow  
  Flemington  
- Daniel O. Bautista  
  Phillipsburg  
- Andrew E. Berry  
  Ashbury Park  
- Abdur R. Bullock  
  Orange  
- Angel L. Burgos  
  Irvington  
- Evenandhi Butler  
  Plainfield  
- Amelio D. Cabrera  
  Bergenfield  
- Anthony Caíola  
  Edison  
- Jesse M. Campo  
  Waldwick  
- Giuseppe M. Caruso  
  Hackensack  
- Michael Cavender  
  Flemington  
- Martin Cederqvist  
  Sweden  
- Johanna D. Cepeda  
  Perth Amboy  
- Nitisha R. Chikyala  
  Randolph  
- Evan Chu  
  Harrison  
- Albertus H. Chua  
  Paramus  
- Anthony J. Corsi  
  Mountainside  
- Tyler Dobiszewski  
  Summit  
- Keith F. Dugan  
  Westwood  
- Manuel A. Duran  
  Paterson  
- Omar El Hileh  
  Bayonne  
- Sana Faruque  
  Jersey City  
- Luis M. Ferreira  
  Palm Coast, FL  
- Anthony M. Frost  
  Clark  
- Christopher S. Furey  
  Allentown  
- Timothy J. Gaul  
  Little Ferry  
- Ebenezir V. Gavieres  
  North Arlington  
- Jordan S. Goetz  
  Teaneck  
- Stephany K. Gomes  
  Whitehouse Station  
- Mija J. Graves  
  Ashbury Park  
- Melanie L. Griffin  
  Willingboro  
- Kashif Huda  
  Edison  
- Lina Idelbi  
  Wayne  
- Safura Iqbal  
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  Jersey City  
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  Montclair  
- Ben Joseph  
  Irvington  
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  Edison  
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  Harrison  
- Jocelyn T. Karakattu  
  Westwood  
- Adil Khan  
  Ridgefield Park  
- Jonathan K. Kim  
  Palisades Park  
- Christina N. Labellarte  
  Rahway  
- Mark Lacy  
  Roselle  
- Derek M. Lester  
  Union  
- Kristian A. Lolo  
  Elizabeth  
- Henrique M. Lopes  
  Newark  
- Julian Lopez  
  Lodi  
- Rishabh Luthra  
  Franklin Park  
- Ajit Manohar  
  Basking Ridge  
- Jennifer Marquez  
  Bloomfield  
- James P. Mathai  
  Jackson  
- Nina Mayevska  
  Brooklyn, NY  
- Keisha Mayo  
  Orange  
- Kathryn K. McDermott  
  Staten Island, NY  
- Michael A. Monahan  
  Marlboro  
- Nyoka B. Moncrieffe  
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BACHELOR OF SCIENCE

BIOINFORMATICS
- Michael Berkenbush
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  Edison

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  Clifton
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  Kearny
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  Rockaway
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  Wallington
- Apexa Chandrakanthbhai Shah
  Bloomfield
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  Chatham
- Robert Wierciszewski
  Wallington

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  Teaneck
- Arslan Afzal
  South Amboy

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  Ridgewood
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  Neptune
- Kyle T. Studd
  Red Bank
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  Bogota
- Ravi D. Trivedi
  Parsippany
- Kirill Vainer
  Fair Lawn
- Zachary J. Wang
  Englewood

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  West New York
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(Degree conferred jointly by NJIT and Rutgers-Newark)
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Norwood

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  Fords
Amro S. Khalil
  Jersey City
Marvin H. Lowe
  East Orange
* Kenneth A. Schreinhofer
  Union
* Haris Siddiqui
  Sayreville

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  Kearny
* Tyler Abrams
  Hewitt
Reyn Ackon
  Belleville
* Carl K. Addu
  Belleville
Jhon Alvarez
  Piscataway
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  Totowa
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  Carteret
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  Irvington
* Andrew Cheng
  Ridgefield
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  Bordentown
* Darnel T. Clarke
  South Orange
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  Kendsworth
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  Dover
Michael N. Deirkrikorian
  Cliffside Park
Peter J. Deleon
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Jitesh D. Desai
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  Franklin Park
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  Iselin
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† Dennis Martinez
  Passaic
Andrew A. Mohammed
  Lake Hiawatha
Stefan R. Montalvo
  Roselle
CANDIDATES FOR BACCALAUREATE DEGREES

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WEB AND INFORMATION SYSTEMS

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<td>Jean P. Uwimana</td>
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BACHELOR OF ARTS

COMPUTER SCIENCE
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* James I. Dobbs
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* Tony C. Liu
  Wayne

* Hyacinthe Nkurunziza
  Paterson

* Mark D. Paone
  Brick

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Piscataway

Rahul A. Patel
Avenel

Mark T. Saniscalchi
Woodbridge

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Union

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  Sayreville

Tauan M. De Almeida
Elizabeth

Chintan R. Desai
 Parsippany

* Khyati Desai
  Clifton

Jean A. Frank
Oak Ridge

Jeremy Kaufman
Fair Lawn

* Waqar Khokhar
  Bayonne

* Dario Lobozzo
  Elmwood Park

Donald Michael McIntosh
Clifton

* Ugochukwu F. Ofomata
  South Orange

Anthony Rios
Paterson

Matthew Signorello
Sparta

Jhonatan S. Villafuerte
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  Kenilworth
Moustafa Abas Moursy
Ahmad E. Abu-Hakimeh
Mudafuulai Akande
Anfal Alkhalaf
Matthew Anderson
Nicole D. Antonicello
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Jared David Alamo Armena
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William P. Barclay
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Peter Besada
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Eveanandi Butler
Inalvys Canahan
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Ali Charaf
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Karen M. Cilento
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Andrew P. Coslow
Raj Darji
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Anja I. Garcia
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Christopher Honczarenko
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Ryan A. Johnston
Joseph Y. Ju
Calvin Justice
Albi Kavo
Scott M. Kesselman
Mohamed Khalil
Seun G. Kilroy
Seojung Kim
Agnes M. Kimani
Andrew N. Kirk
Christopher S. Kuriakose
Pin W. Lai
Kimberly Lam
Adam Lasota
Sandra Lazo
Yuwen Liang
Mina J. Liba
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Agnes Lui
Sean J. Malin
Lisha Malkani
Tanya A. Masand
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Michael Melillo
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Hetal D. Patel
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Varun M. Patel
Vrajeshri J. Patel
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Kodjovi A. Quenum
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Shadia N. Saleh
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Bishoy Samy
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Guemila Sawadogo
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Shani Vargheese
Veton Vejseli
Sandhya Venkataraman
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Deepa R. Voleti
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Luz A. Zidziunas

HONORS DESIGNATION

Honors Scholar — graduate of the Albert Dorman Honors College
HONORS DESIGNATIONS

SUMMA CUM LAUDE

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<th>Tyler Abrams</th>
<th>Christopher J. Gaeta</th>
<th>Reem Nakshbandy</th>
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<td>Luz A. Zidziunas</td>
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</table>

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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Anfal Alkhalaf
Shadi A. Arbali
Joshua T. Basedow
Amado Bencosme
Lorry D. Benoit
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Jefferson T. Braga
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Sandhya Venkataraman
Jonathan D. Villa Gonzales
Eric J. Winters
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### CUM LAUDE

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College of Architecture and Design  Albert Dorman Honors College  
James Piccone  Karen Cilento  
College of Science and Liberal Arts  College of Computing Sciences  
Yuwen Liang  David Daudelin  

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AWARDS EARNED FOR ACHIEVEMENT IN THE YEAR OF GRADUATION

Hopper Scholarship
Ravi Trivedi

Madame Mau Outstanding Female Engineering Student Endowment Award
Lisha Malkani

Newark College of Engineering
Outstanding Senior Award
Walter Vittitoe

New Jersey Institute of Technology
Faculty Scholarship
Kristine Marie Cheng
Ravi Trivedi

Otto York Department of Chemical, Biological & Pharmaceutical Engineering
Olakemi Akinlabi

Jim Wise Scholarship
Kristine Marie Cheng

Newark College of Engineering
Outstanding Senior Award
Mechanical & Industrial Engineering
Michael Anderson

Newark College of Engineering
Outstanding Senior Award
Civil & Environmental Engineering
Mary Youssef

Newark College of Engineering
Outstanding Senior Award
Biomedical Engineering
Luz Angela Zidziunas

Newark College of Engineering
Outstanding Senior Award
Electrical & Computer Engineering
Julia Gayner

Newark College of Engineering
Outstanding Senior Award
Engineering Technology
Tia Montalto
Walter Vittitoe
IN RECOGNITION OF THE CLASS OF 2012

Proud parents, family and friends have recognized the accomplishments of individual members of the Class of 2012. Gifts, in their honor, have been made to the university to provide support for future generations of graduates.

In honor of our son
Anthony John Agrios
The Agrios Family

In honor of
Rexon D. Arquiza
Mom, Joy Deguino

In honor of
Clarice J. Andre
The Andre Family

In honor of our daughter
Melissa C. Bauer
Mom & Dad

In honor of
Christine A. Berdahl
Dad, Mom, Matt & Sammy

In honor of my son
Robert Bowden
Ms. Gria Bowden & Family

In honor of
Joseph Buono-Brody

In honor of our son
Rocco Cerami
Mom, Dad, Christa & Marialisa

In honor of
George A. Chidley, IV
The Chidley Family

In honor of our son
Geoff Chidley
The Chidley Family

In honor of
Karen M. Cilento
The Cilento Family

In honor of
Peter J. Deleon
The Deleon Family

In honor of
Gaston A. Domingo
The Domingo Family

In honor of
Keith Francis Dugan
The Dugan Family

In honor of my brother-in-law
Winfred Dziekpor
Pastor George K. Annan

In honor of our father
Winfred Dziekpor
Ethan-Leon E. & Earl-Leon S. Dziekpor

In honor of my son-in-law
Winfred Dziekpor
Patricia Ofori-Arphur

In honor of our son
Christopher J. Early
Mom, Dad and Caitlin Early

In honor of
Anthony M. Ferraioli
The Ferraioli Family

In honor of
Anthony M. Frost
The Frost Family

In honor of
Jennifer Lee Garcia
The Garcia Family

In honor of
Benjamin C. Gross
The Gross Family

In honor of
Takumi K. Harada
The Harada Family

In honor of our son
Ryan Scott Johnson
Christine & Scott Johnson

In honor of
Ryan A. Johnston
The Johnston Family
In honor of
Eric Kryzanowski
The Kryzanowski Family

In honor of
Anthony Lambiase
The Lambiase Family

In honor of
Joseph C. Macchione, Jr.
The Macchione Family

In honor of our daughter & sister
Marielle Marchena
Mom, Dad & brother

In honor of
Sam S. Mathew
Tom S. Mathew

In honor of
James C. Millar
The Millar Family

In honor of our daughter & sister
Jessica Morales
The Morales Family

In honor of
Hai To Ng
The Ng Fa

In honor of
Abena A. Owusu-Banahene

In honor of our son
Savan N. Patel
Nayna & Nitin Patel

In honor of
Thomas M. Petersen
The Petersen Family

In honor of
Gregory J. Petroski
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In honor of
Andrew Nathan Polovsky
The Polovskvsky/Elgarten Families

In honor of
Clifton W. Prescod, III
The Prescod Family

In honor of
Tanay D. Shah
The Shah Family

In honor of
Adam J. Raiffe
The Raiffe Family

In honor of my wife
Angelika Slabiak
Piotr Slabiak

In honor of our son
Benjamin W. Slepp
Mom & Dad

In honor of
David M. Thompson
The Thompson Family

In honor of our son
Raffaele Totino
The Totino Family

In honor of our son
Daniel Francis Van Dyke
Mom, Dad & Doug
IN RECOGNITION OF FAMILY AND FRIENDS

Members of the Class of 2012 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 parents & friends
Sonia Preciado, Vito Accardi,
Jilian, Jackie & Marco Pollentarutti
Oscar Bueno

In honor of my wife & sons
Ruby Ofori-Arphur, Ethan-Leon E. &
Earl-Leon S. Dziekpor
Winfred Dziekpor

In honor of my parents
Malathi & Shiva Prasao Prathapa
Aditya Prathapa

In honor of my husband
Peter Slabiak
Angelika Slabiak

In honor of my parents
Gabe & Mariella Totino
Raffaele Totino

In honor of my parents
Juana & Alberto Villafuerte
Jhonatan Villafuerte

In honor of my husband & children
John, Nate, John-John & Skylee
Natalie Wallace-Gomes
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The New Jersey Institute of Technology that 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.
The past academic year, Joel S. Bloom was named president. The new administration continued the expansion of NJIT’s Newark campus. Ground was broken this spring for 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. The project is scheduled for completion by fall of 2013.

**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 1:13.

NJIT is ranked in the nation’s top tier of national research universities, according to the *U.S. News and World Report’s 2011 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 fourth 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 373 Colleges for 2011, 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.

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, also dates back to medieval times when it was used for an offensive weapon. Made wholly or partly of metal, and often spiked, it was used especially for breaking armor.

In time, it became a staff borne by, carried before, or placed near a magistrate or other dignitary as an ensign of his authority.

The university’s mace is carried in the academic procession, immediately preceding the undergraduate degree candidates. Presented as a class gift in the early 1950’s, it is thirty inches in length and is marked at the head by the Bronze Seal of 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 bears the official university Seal. It is worn about the neck by the president of the university on ceremonial occasions.

The medallion was presented to the university in 1968 by the Alumni Association.

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.