COMMENCEMENT CEREMONY, 2008

May Seventeenth
Two Thousand and Eight
Prudential Center
Newark, New Jersey
Welcome to the 2008 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 2008 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!
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 audience should remain seated throughout the ceremony and until the recessional is completed.

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

Any attendee requiring assistance should contact uniformed Prudential Center personnel.

Members of the audience are asked to turn off cell phones and beepers.

*Your cooperation is greatly appreciated.*
## UNIVERSITY CEREMONY

<table>
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<th>Class Crier</th>
<th>Diva Ranade ’08, Senior Class President</th>
</tr>
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| Processional | AFROTC Detachment 490 Color Guard  
Grand Marshal  
Gonfalon Carriers  
Candidates for Baccalaureate Degrees  
Candidates for Master’s Degrees  
Candidates for Doctoral Degrees  
Distinguished Faculty  
Golden Highlanders  
Bagpiper  
Presidential Party |
|--------------|-------------------------------------|

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<th>Presiding</th>
<th>Robert A. Altenkirch, President</th>
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<th>The National Anthem</th>
<th>Newark Boys Chorus</th>
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<th>Greetings</th>
<th>Robert A. Altenkirch, President</th>
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| Presentation of Honorary Degrees | Kathleen Wielkopolski, Chair  
Board of Trustees  
Elizabeth R. Del Tufo  
Historian  
Newark Preservation and  
Landmarks Committee  
Norman N. Li  
President  
NL Chemical Technology  
Thom Mayne  
Founder and Design Principal  
Morphosis |
|-------------------------------|--------------------------------|

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<th>Presiding</th>
<th>Priscilla P. Nelson, Provost</th>
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<td>Presentation of Candidates for Doctoral Degrees</td>
<td>Ronald S. Kane, Dean Graduate Studies</td>
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<td>Presentation of the Hashimoto Prize</td>
<td>Daniel A. Henderson, President PhoneTel Communications, Inc.</td>
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**Presentation of Candidates for Master’s Degrees**

<table>
<thead>
<tr>
<th>Newark College of Engineering</th>
<th>Sunil Saigal, Dean Newark College of Engineering</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Norman Loney, Associate Chair Otto H. York Department of Chemical Engineering</td>
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<tr>
<td>New Jersey School of Architecture</td>
<td>Urs P. Gauchat, Dean New Jersey School of Architecture</td>
</tr>
<tr>
<td></td>
<td>John Cays, Associate Dean New Jersey School of Architecture</td>
</tr>
<tr>
<td>College of Science and Liberal Arts</td>
<td>Fadi P. Deek, Dean College of Science and Liberal Arts</td>
</tr>
<tr>
<td></td>
<td>Farzan Nadim, Acting Chair Department of Biological Sciences</td>
</tr>
<tr>
<td>School of Management</td>
<td>Robert English, Interim Dean School of Management</td>
</tr>
<tr>
<td></td>
<td>Barbara Tedesco, Associate Dean School of Management</td>
</tr>
<tr>
<td>College of Computing Sciences</td>
<td>Narain Gehani, Dean College of Computing Sciences</td>
</tr>
<tr>
<td></td>
<td>Barry Cohen, Associate Dean College of Computing Sciences</td>
</tr>
<tr>
<td>Interdisciplinary Program in Materials Science and Engineering</td>
<td>Ronald S. Kane, Dean Graduate Studies</td>
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*Listing of the Candidates for Doctoral Degrees begins on page 11.*  
*Listing of the Candidates for Master’s Degrees begins on page 24.*
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<th>Details</th>
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<tr>
<td>Undergraduate Speaker</td>
<td>Diva Ranade ’08</td>
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<td>High GPA Award Presentation</td>
<td>Priscilla P. Nelson, Provost</td>
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<tr>
<td>Presentation of Candidates for Baccalaureate Degrees</td>
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<tr>
<td>Newark College of Engineering</td>
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<td></td>
<td>College of Computing Sciences</td>
</tr>
<tr>
<td>Conferring of Degrees</td>
<td>Kathleen Wielkopolski, Chair</td>
</tr>
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<td></td>
<td>Board of Trustees</td>
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<tr>
<td>Alma Mater</td>
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<tr>
<td>Recessional</td>
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*Listing of the Candidates for Baccalaureate Degrees begins on page 34.*
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.
Thom Mayne, the 2005 Pritzker Architecture Prize laureate, is the founder and design principal of Morphosis, an interdisciplinary and collective architectural practice in Los Angeles involved in innovative design and rigorous research. The firm’s work ranges from residential, institutional, and civic buildings to large urban planning projects, with an emphasis on collaboration between designers and client that takes into account the unique requirements and aesthetic opportunities presented by the project, its site, and its context.

With Morphosis, Mayne has been the recipient of 25 progressive architecture awards, 54 AIA awards and numerous other design recognitions. Under his direction, the firm has been the subject of various group and solo exhibitions throughout the world, most notably at the Contemporary Art Center in Cincinnati, OH, the Walker Arts Institute in Minneapolis, MN, and a major retrospective at the Netherlands Architectural Institute in 1999 and the Ministerio de Fomento in Madrid in 1998.

Mayne founded the Southern California Institute of Architecture and has taught at Columbia University, Harvard University, Yale University, the Berlage Institute in the Netherlands, and the Bartlett School of Architecture in London. He currently is a faculty member at the UCLA School of the Arts and Architecture.

In addition to the Pritzker Prize, his honors include the National Design Award for Architecture (2006); the Rome Prize Fellowship; membership in the American Academy of Arts and Letters; and the American Institute of Architects/Los Angeles Gold Medal in Architecture (2000). He received his master of architecture degree from Harvard University.

In recognition of his extraordinary record of inspired design and achievements, New Jersey Institute of Technology is pleased to confer the degree of Doctor of Humane Letters, honoris causa, upon Thom Mayne.
Norman N. Li, PhD, president of NL Chemical Technology, Inc. in Mount Prospect, Illinois, has made major technical contributions to the advancement of separation science and technology in general and membrane science and technology in particular. He invented the liquid membrane and mixed matrix membrane for effective separation and purification of gas and liquid phases. He also invented a low-energy consumption reverse osmosis membranes for desalination applications.

Dr. Li has a distinguished career of 40 years in the American chemical and petroleum industries. He was a senior scientist with Exxon Research and Engineering Co. and the director of research at UOP Co. and AlliedSignal Co. (now Honeywell). He also served as a consultant for the U.S. Apollo Moon Landing Project. Recognizing the critical needs of clean water in many parts of the world, he founded NL Chemical Technology, Inc. in 1995, focusing on the development of advanced membrane technologies for water purification. He has made significant contributions to the worldwide implementation of industrial separation processes, which include membrane processes, continuous adsorption processes and applications for the manufacture of ozone-friendly fluorocarbons.

He was elected to the National Academy of Engineers in 1990 and was also elected to the Chinese Academy of Sciences and the Academia Sinica. He received the prestigious Perkin Medal from the Society of Chemical Industry in 2000, the highest honor in the American chemical industry. He was the recipient of the Founders Award from the American Institute of Chemical Engineers (AIChE) in 2006, the highest honor conferred by AIChE. In addition, he received the American Chemical Society Award of Separation Science and Technology, and the inaugural Award for Lifetime Achievements from the World Congress of Chemical Engineers in 2001. Dr. Li was an AIChE board director (1992-1994) and a director of the Division of Food, Pharmaceutical and Bioengineering. He also served as the chair of the ACS Division of Industrial and Engineering Chemistry (1980), and as the president of North American Membrane Society (1991-1993). He has more than 100 technical publications, 44 U.S. patents, and 13 books edited—all in the field of separation science and technology. He has given lectures at 80 universities and industrial laboratories.

Dr. Li and his wife, Jane, reside in Chicago. His wife is a PhD mathematician and an expert in quality management and they have a daughter and a son, both of whom are chemical engineers. He received his BS in chemical engineering from the National Taiwan University and his PhD in chemical engineering from Stevens Institute of Technology in 1963. While pursuing his doctoral study (1960-1963), he was a full-time lecturer of chemistry at Newark College of Engineering.

In recognition of his outstanding career as an internationally renowned industrial scientist and engineer, New Jersey Institute of Technology is pleased to confer the degree of Doctor of Science, honoris causa, upon Norman N. Li.
THE DEGREE OF DOCTOR OF HUMANE LETTERS, HONORIS CAUSA

Presented to
ELIZABETH R. DEL TUFO
HISTORIAN

For more than three decades, Elizabeth R. Del Tufo has given thousands of people new awareness of the beautiful and distinctive landmarks and neighborhoods in the City of Newark. Her fondest memories of the city are the 1950s, when she worked downtown while attending Katherine Gibbs Secretarial School in Montclair. In 1960, she returned to the city as a resident after marrying Raymond Del Tufo, Jr., who died in 1970.

In 1973, Del Tufo and a small group of people formed the Newark Preservation and Landmarks Committee in order to protect the architecture that was such an integral part of the city’s history. Since that time, the committee’s efforts have placed more than 70 individual buildings and five districts on the State and National Register of Historic Places. Working with The Newark Museum in 1976, Del Tufo started a program of Newark tours which has grown to 50 tours a year, guiding groups from all over the metropolitan area through Newark. Eberhardt Hall NJIT Alumni Center has become a regular attraction on these tours. She also established the website newarktours.com, through which she continues to lead hundreds of people through Newark every year.

In 1973, Del Tufo and a small group of people formed the Newark Preservation and Landmarks Committee in order to protect the architecture that was such an integral part of the city’s history. Since that time, the committee’s efforts have placed more than 70 individual buildings and five districts on the State and National Register of Historic Places. Working with The Newark Museum in 1976, Del Tufo started a program of Newark tours which has grown to 50 tours a year, guiding groups from all over the metropolitan area through Newark. Eberhardt Hall NJIT Alumni Center has become a regular attraction on these tours. She also established the website newarktours.com, through which she continues to lead hundreds of people through Newark every year.

Del Tufo was appointed the first director of Cultural Affairs for Essex County in 1980, where she expanded the annual concert events to more than 200 from the dozen or so in previous years. The concerts focused on New Jersey performers and were held mostly in Newark's historic Branch Brook Park. Her most lasting accomplishment was the restoration of a former Nike Missile Base in Livingston, NJ, into today's Riker Hill Art Park. In 1986, Del Tufo became the Executive Director of the Newark Boys Chorus School, where she solidified the boys’ role as “Newark’s Finest Ambassadors,” singing internationally while gaining excellent academic training. During her tenure, the school earned Middle States Accreditation.

In 1990, Del Tufo convinced the city administration to create a landmarks commission which would, by state and municipal ordinance, protect all Newark sites on the historic registers. She served as chair of the commission for 16 years. More recently, she has put together a DVD, Newark Through the Ages, which she uses when lecturing at colleges, adult schools, and historic preservation organizations.

In recognition of her outstanding career as a founding member of the Newark Preservation and Landmarks Committee and her commitment to the City of Newark, New Jersey Institute of Technology is pleased to confer the degree of Doctor of Humane Letters, honoris causa, upon Elizabeth R. Del Tufo.
THE HASHIMOTO PRIZE
Presented to
ZIQIAN DONG ’08

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 Ziqian Dong, 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)

Weizhong Chen
BS Materials Science and Engineering, Xi’an University of Technology, Xi’an, People’s Republic of China
MS Physics, Lanzhou Institute of Physics, Lanzhou, People’s Republic of China

Dissertation:
Synthesis and Characterization of Plasma Enhanced Chemically Vapor Deposited Tantalum Films

Advisor:
Roland A. Levy, PhD

* Sheng Liu
BS Space Physics, Wuhan University, Wuhan, People’s Republic of China
MS Physical Electronics, Peking University, Beijing, People’s Republic of China

Dissertation:
Physics of Flexible Sensors for Medical Applications

Advisor:
Gordon A. Thomas, PhD

† Zhiwei Liu
BS Semiconductor Physics, Wuhan University, Wuhan, People’s Republic of China
MS Physics of Semiconductor Devices, Wuhan University, Wuhan, People’s Republic of China

Dissertation:
Construction of FASR Subsystem Testbed and Application for Solar Burst Trajectories and RFI Study

Advisor:
Dale E. Gary, PhD

† Jun Ma
BS Aerodynamics and Flight Mechanics, Nanjing University of Aeronautics and Astronautics, Nanjing, People’s Republic of China
MS Mechanical Engineering, New Jersey Institute of Technology, Newark, New Jersey

Dissertation:
Design and Application of Near Infrared Tunable Filter for ATST and NST

Advisors:
Carsten Denker, PhD
Haimin Wang, PhD

† — August 2007 graduates
* — January 2008 graduates
* Irene Adamma Nwosuh  
BS Physics, University of Nigeria, Benin, Nigeria  
MS Physics, New Jersey Institute of Technology, Newark, New Jersey  

Dissertation:  
* Development of Personal Tonometer for Measuring Intraocular Pressure  

Advisor:  
* Gordon A. Thomas, PhD

† Yuhai Qin  
BS Physics, Nanjing University, Jiangsu, People’s Republic of China  

Dissertation:  
† Magnetic Ordering in Bi$_{1-x}$Ca$_x$MnO$_3$  

Advisor:  
† Trevor A. Tyson, PhD

* Hui Song  
BS Electronics Engineering, Jilin University, Changchun, People’s Republic of China  
MS Optics, Changchun Institute of Optics, Fine Mechanics and Physics, Chinese Academy of Science, Changchun, People’s Republic of China  
MS Computer Science, University of Bridgeport, Bridgeport, Connecticut  

Dissertation:  
* Automatic Prediction of Solar Flares and Super Geomagnetic Storms  

Advisor:  
* Haimin Wang, PhD

† Jianjun Zheng  
BS Applied Physics, Wuhan University, Wuhan, People’s Republic of China  
MS Electrical Engineering, Tufts University, Medford, Massachusetts  

Dissertation:  
† Design, Fabrication and Testing of a Fiber Optic Stress/Strain Sensor for Stretchable Materials Using Polarization Imaging Technique  

Advisor:  
† John F. Federici, PhD
**BIOLOGY**
(Degree conferred jointly by NJIT and Rutgers-Newark)

* Olga E. Khorkova Sherman  
BS Biology and English, Moscow State Pedagogical University, Moscow, Russia  
MS Biology and English, Moscow State Pedagogical University, Moscow, Russia  

Dissertation:  
*Mechanisms of Ionic Current Changes Underlying Rhythmic Activity Recovery After Decentralization*

Advisor:  
*Jorge Golowasch, PhD*

---

**BIOMEDICAL ENGINEERING**

* Aysegul Ergin  
BS Electronics Engineering, Istanbul University, Istanbul, Turkey  
MS Biomedical Engineering, Bogazici University, Istanbul, Turkey  

Dissertation:  
*A Laser Glucometer for Diabetes*

Advisor:  
*Gordon A. Thomas, PhD*

* Bruno A. Mantilla  
Doctor in Medicine, School of Medicine, Universidad del Rosario, Bogotá, Colombia  
MS Biomedical Engineering, New Jersey Institute of Technology, Newark, New Jersey  

Dissertation:  
*Novel Model of Cerebrospinal Fluid Dynamics Based on Hemodynamically Driven Cyclic Brain Compliance Variation*

Advisor:  
*Richard Foulds, PhD*  
*William Hunter, PhD*

---

**CHEMICAL ENGINEERING**

* Amit Goyal  
BS Chemical Engineering, Manipal Institute of Technology, Manipal, India  
MS Chemical Engineering, New Jersey Institute of Technology, Newark, New Jersey  

Dissertation:  
*New Approaches to Scaled-Up Carbon Nanotube Synthesis and Nanotube-based Metal Composites and Sensors*

Advisors:  
*Joseph Bozelli, PhD*  
*Zafar Iqbal, PhD*
Victor Stepanov
BS Chemical Engineering, New Jersey Institute of Technology, Newark, New Jersey
MS Chemical Engineering, New Jersey Institute of Technology, Newark, New Jersey
Dissertation:
Production of Nanocrystalline Nitramine Energetic Materials by Rapid Expansion of Supercritical Solutions
Advisor:
Lev Krasnoperov, PhD

CIVIL ENGINEERING

* Yi Deng
BS Transportation Engineering, Tongji University, Shanghai, People's Republic of China
MS Transportation Engineering, Tongji University, Shanghai, People's Republic of China
Dissertation:
Multiclass Intermodal Network Model: The Use of Combined Model on System Evaluations
Advisor:
Rongfang Liu, PhD

COMPUTER ENGINEERING

Muhammad Zafrul Hasan
BS Electrical and Electronic Engineering, Bangladesh University of Engineering and Technology, Dhaka, Bangladesh
MS Electronic Engineering, Eindhoven University of Technology, Eindhoven, Netherlands
Dissertation:
Vector Customization and Reconfiguration Framework for Multi-Kernel Embedded Applications
Advisor:
Sotirios G. Ziavras, PhD

* Xin Tang
BS Mathematics, Peking University, Beijing, People's Republic of China
MS Applied Mathematics, New Jersey Institute of Technology, Newark, New Jersey
MS Computer Science, New Jersey Institute of Technology, Newark, New Jersey
Dissertation:
Generalized Anomaly Detection Models for Malicious Executables
Advisor:
Sotirios G. Ziavras, PhD
**COMPUTER AND INFORMATION SCIENCE**

Karen Hare  
BS Business Administration and Marketing, Montclair State University, Montclair, New Jersey  
MPA Public Administration, Health Policy Planning and Administration, New York University, New York, New York  
MS Computer Science, New Jersey Institute of Technology, Newark, New Jersey  
MS Information Systems, New Jersey Institute of Technology, Newark, New Jersey  

Dissertation:  
*Perception Gaps and the Adoption of Information Technology in the Clinical Health Environment*  

Advisors:  
*Fadi Deek, PhD*  
*Brian Whitworth, PhD*

---

**COMPUTER SCIENCE**

* Yoo Jung An  
BS Home Economics Education, Kookmin University, Seoul, Korea  
MS Consumer Science, Dongguk University, Seoul, Korea  
MS Computer Science, New Jersey Institute of Technology, Newark, New Jersey  

Dissertation:  
*Ontology Learning for the Semantic Deep Web*  

Advisor:  
*James Geller, PhD*

---

Yan Chen  
BS Sports Medicine, Beijing University, Beijing, People's Republic of China  
MS Sports Medicine, Beijing University, Beijing, People's Republic of China  
MS Computer Science, New Jersey Institute of Technology, Newark, New Jersey  

Dissertation:  
*Abstraction, Extension, and Structural Auditing with the UMLS Semantic Network*  

Advisors:  
*James Geller, PhD*  
*Yehoshua Perl, PhD*

---

† Gang Fu  
BS Computer Engineering, Soochow University, Suzhou, People's Republic of China  
MS Computer Engineering, Soochow University, Suzhou, People's Republic of China  

Dissertation:  
*Solar Activity Detection and Prediction Using Image Processing and Machine Learning Techniques*  

Advisors:  
*Frank Y. Shih, PhD*  
*Haimin Wang, PhD*
† Rahul Brajesh Jain  
BS Computer Engineering, Mumbai University, Mumbai, India  
MS Computer Science, New Jersey Institute of Technology, Newark, New Jersey  
Dissertation:  
*Design and Implementation of Split TCP in the Linux Kernel*  
Advisor:  
*Teunis Ott, PhD*

* Xin Wang  
BS Computer Science, Hefei University of Technology, Hefei, People’s Republic of China  
MS Computer Science, Hefei University of Technology, Hefei, People’s Republic of China  
Dissertation:  
*Some Combinatorial Optimization Problems on Radio Network Communication and Machine Scheduling*  
Advisors:  
*Artur Czumaj, PhD*  
*Joseph Leung, PhD*

Jun Xu  
BA Economics, Shanghai Institute of Foreign Trade, Shanghai, People’s Republic of China  
MBA University of Baltimore, Baltimore, Maryland  
MS Computer Science, Towson State University, Towson, Maryland  
Dissertation:  
*D ata Allocation in Disk Arrays with Multiple RAID Levels*  
Advisor:  
*Alexander Thomasi, PhD*

† Wugang Xu  
BS Physics, Peking University, Beijing, People’s Republic of China  
MS Computing Acoustics, Institute of Acoustics, Chinese Academy of Sciences, Beijing, People’s Republic of China  
MS Computer Science, New Jersey Institute of Technology, Newark, New Jersey  
Dissertation:  
*Automatic Physical Database Design: Recommending Materialized Views*  
Advisor:  
*Dimitrios Theodoratos, PhD*
ELECTRICAL ENGINEERING

† Naser Ahmed Chowdhury
BS Electrical and Electronic Engineering, Middle East Technical University, Ankara, Turkey
MS Electrical Engineering, University of Texas at Arlington, Arlington, Texas

Dissertation:
Reliability Studies of TiN/Hf-Silicate Based Gate Stacks

Advisor:
Durgamadhav Misra, PhD

* Ziqian Dong
BS Electrical Engineering, Beijing University of Aeronautics and Astronautics, Beijing, People’s Republic of China
MS Electrical Engineering, New Jersey Institute of Technology, Newark, New Jersey

Dissertation:
Architecture Design and Performance Analysis of Practical Buffered-Crossbar Packet Switches

Advisor:
Roberto Rojas-Cessa, PhD

Eun Kyu Lee
BS Electrical Engineering, Seoul National University, Seoul, Korea
MS Electrical Engineering, New Jersey Institute of Technology, Newark, New Jersey

Dissertation:
Optical Properties and Carrier Transport in Si/SiGe Nanostructures

Advisor:
Leonid Tsybeskov, PhD

* Chuan-bi Lin
BS Chemical Engineering, Tatung University of Technology, Taipei, Taiwan
MS Electrical Engineering, University of Bridgeport, Bridgeport, Connecticut

Dissertation:
Design and Analysis of Scalable Scheduling Schemes for High Speed Input-Queued Packet Switches

Advisor:
Roberto Rojas-Cessa, PhD
* Michael Yu-Chi Wu
  BS Electrical Engineering, New Jersey Institute of Technology, Newark, New Jersey
  MS Computer and Information Science, New Jersey Institute of Technology, Newark, New Jersey
  MS Electrical Engineering, New Jersey Institute of Technology, Newark, New Jersey

  Dissertation:
  *Propagation and Scattering of Beam Waves in Vegetation Using Scalar Transport Theory*

  Advisor:
  *Gerald M. Whitman, PhD*

Hongyan Yang
  BS Electrical Engineering, Beijing University of Posts and Telecommunications, Beijing, People's Republic of China
  MS Electrical Engineering, Beijing University of Posts and Telecommunications, Beijing, People's Republic of China

  Dissertation:
  *Vector Support for Multicore Processors with Major Emphasis on Configurable Multiprocessors*

  Advisor:
  *Sotirios Ziavras, PhD*

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

Florencio C. Ballesteros Jr.
  BS Chemical Engineering, Saint Louis University, Baguio City, Philippines
  MS Environmental Engineering, University of Illinois, Champaign, Illinois

  Dissertation:
  *Projecting Land Use Changes Using Parcel-Level Data: Model Development and Application to Hunterdon County, New Jersey*

  Advisor:
  *Zeynan Qiu, PhD*

* Kamilah Safiya Hylton
  BS Pure and Applied Chemistry, University of the West Indies, Kingston, Jamaica
  MS Natural Resource Management, University of the West Indies, Kingston, Jamaica

  Dissertation:
  *Microscale Membrane Extraction for Monitoring Trace Water Pollutants*

  Advisor:
  *Somenath Mitra, PhD*
Hao Wang  
BS Environmental Engineering, Beijing Industry and Business University, Beijing,  
People’s Republic of China  
MS Environmental Science, Beijing Normal University, Beijing, People’s Republic of China  

Dissertation:  
*Interaction of Methoxyethyl Methyl Imidazolium (MOEMIM)- Based Ionic Liquids with Uranium  
and Its Effect on Bioreduction of Uranium*  

Advisor:  
Sanjay V. Malhotra, PhD

INDUSTRIAL ENGINEERING  
Robert Nearier  
BA History, State University of New York-Binghamton, Binghamton, New York  
MBA Administration in Accounting, Indiana University-Bloomington, Bloomington, Indiana  
MS Manufacturing Engineering, Polytechnic University, New York, New York  

Dissertation:  
*Modeling Inventory and Responsiveness Costs in a Supply Chain*  

Advisor:  
Sanchoy Das, PhD

INFORMATION SYSTEMS  
* Morgan C. Benton  
BA Leadership Studies and Sociology, University of Richmond, Richmond, Virginia  
MS Information Systems, New Jersey Institute of Technology, Newark, New Jersey  

Dissertation:  
*The Development and Evaluation of Software to Foster Professional Development in Educational Assessment*  

Advisor:  
Marilyn M. Tremaine, PhD

Xiaoyu Chen  
BS Management Information Systems, Beijing University of Aeronautics and Astronautics, Beijing,  
People’s Republic of China  
MS Information Systems, New Jersey Institute of Technology, Newark, New Jersey  

Dissertation:  
*Designing Multimodal Interactions for the Visually Impaired*  

Advisor:  
Marilyn M. Tremaine, PhD
Catherine Ann Dwyer
BA English and Political Science, Fordham University, New York, New York
MA Music Education, Manhattan School of Music, New York, New York
MS Computer Science, Pace University, New York, New York

Dissertation:
*Appropriation of Privacy Management Within Social Networking Sites*

Advisor:
Starr Roxanne Hiltz, PhD

Richard William Egan
BS Psychology, City College of New York, New York, New York
MS Applied Psychology – Human Factors, Stevens Institute of Technology, Hoboken, New Jersey
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Dissertation:
The Impact of Cultural Differences in Temporal Perception on Global Software Development Teams

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Dissertation:
Dynamics of Online Chat

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Dissertation:
Taux: A System for Evaluating Sound Feedback in Navigational Tasks

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BS Civil Engineering, University of Nairobi, Nairobi, Kenya  
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Dissertation:  
* User Evaluation of the Performance of Informational Systems  

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Dissertation:  
* Leader Delegation and Trust in Global Software Teams  

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Dissertation:  
* Ion Assisted Magnetron Sputtering of Tantalum Thin Film Deposition and Characterization  

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MS Materials Science and Engineering, New Jersey Institute of Technology, Newark, New Jersey  

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* Diaphragm-Fiber Optic Sensor for Acoustic Detection  

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BS Mathematics, University of Madras, Madras, India  
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Dissertation:  
The Role of Short Term Synaptic Plasticity in Temporal Coding of Neuronal Networks  
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Dissertation:  
Roles of Gap Junctions in Neuronal Networks  
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Dissertation:  
Signal Transmission in Epithelial Layers  
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Dissertation:
Density Relaxation of Granular Matter Through Monte Carlo and Granular Dynamics Simulations

Advisor:
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Dissertation:
Micro, Meso, and Macro Material Processing Using High-Speed Liquid Projectiles

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Dissertation:
Optimal Allocation of Blood Products

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Dissertation:
Optimized Scheduling of Highway Work Zones

Advisor:
J. Steven Chien, PhD
MASTER OF SCIENCE

BIOMEDICAL ENGINEERING

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<th>MECHANICAL ENGINEERING</th>
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<td>Kossivi Amou Mamadou Bamba</td>
<td>Stephen J. Benstowe Sylvia Wanjuriru Kamau</td>
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Belleville
Milton A. Flores  
Union
Robert M. Francisco  
Spotswood
• Jeremy Gayed  
Washington Township
Andrew P. Hofmaier  
Caldwell
Raphael V. Intrieri  
Elmwood Park
James Steven Johnson  
Woodbridge
Mehul G. Kachhia  
Iselin
Jason Richard Kalwa  
Lake Hiawatha
Kai Sum Li  
Morgasville
• Mike Ludy Loiseau  
Irvinton
• Sevag Mekhsian  
New Milford
Shyamantha Mahendra  
Nanayakkara
Malick Ndiaye  
Newark
• Adefolarin A. Ogunsanya  
East Orange
Mark T. Orpilla  
Kearny
Devon Daniel Ostrowski  
Old Bridge
• Nihar Prakash Patel  
Union
• Vikas Patel  
Union
Kevin J. Pek  
High Bridge
Jeanina M. Perez  
West Orange
• Phillipe G. Pezoa  
Bayonne
Marvin Pooran  
Ledgewood
Thomas J. Price  
Chatham
Giovanny Pulido  
Hillsdale
Ravdeep S. Rana  
Carteret
David J. Robinson  
Hamilton
• Gregory B. Rucker  
Tinton Falls
Donald Scott  
Browns Mills
Marco Shawki  
East Brunswick
Jonathan A. Silva  
Union
• Latha Singanamallli  
East Brunswick
James M. Slocum  
Hasbrouck Heights
• Juben L. Sulse  
Union
Khizar Sultan  
Kearny
† Samuel Talabi  
Union
Raymond Vazquez  
North Arlington
Matthew J. Wizner  
Clifton
Andrew Morgan Woo  
Boonton
Steve A. Yacoub  
Jersey City

ELECTRICAL ENGINEERING
Zakariya S. Abbassi  
Palisades Park
Adedamola A. Adegboyega  
Elmwood Park
Joseph L. Aduna  
Bogota
Stephen Akayuli  
Newark
Ouafae Alloul  
Lyndhurst
† Victor L. Altamirano  
Hillsdale
Shadi S. Ammar  
Belleville

Jimmy Anabwani  
Union

Matthew W. Bajor  
Middletown

Derek R. Baker  
Linden

Falgun H. Bakhtawala  
Jersey City

Jonathan E. Britt  
Bayonne

Pongsaton Buddhani  
Jersey City

Kevin Anthony Carreras  
Edison

Eric Joseph Cassidy  
Forked River

Jacob Elcob Chacko  
North Brunswick

Arturo J. Chavez-Pinto  
Garfield

Charles Comeau  
Metuchen

Darren J. Coppola  
Roseland

John Cua  
Parlin

Bruno Barroso De Arruda  
Mine Hill

Fernando H. Delgado  
Hackensack

Michael A. Dentato  
Toms River

Jared DiGioccio  
North Bergen

Brian Dozier  
Jersey City

Denzil D’Sa  
Clifton

Chinenye U. Eweh  
Union

Vladimir R. Feist  
Parsippany

Phillip Clark Evans Fitzpatrick  
Pemberton

Gregory J. Gadomski  
Edison

Abel M. George  
Roselle Park

Amit Gupta  
Somerset

Peter B. Hana  
Elizabeth

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Bayonne

Ehimwenma P. Ima-Edomwonyi  
Newark

Ricky I. Isibor  
Rockaway

David Anthony Jones  
Irvington

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Bridgewater

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Garfield

Muhammad Ijaz Khan  
Jersey City

David Kloc  
Fair Lawn

Kliti Kodra  
Lodi

Piotr Kuczynski  
Bayonne

John Francis Lim  
Jersey City

Henry B. Loo  
Bloomfield

Fabian Lopez  
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Usman Naem Malik  
Lawrenceville

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Peter B. Mendonez Jr.  
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Toms River

Anton Namit  
Dayton

Raymond Ngan  
Edison

Omosola T. Osunfisan  
Toanoek

Avinash B. Patel  
South Plainfield

Chirag K. Patel  
Dumont

Darpan G. Patel  
Passaic

Jignesh M. Patel  
North Brunswick

Snehul P. Patel  
Piscataway

Vixar J. Patel  
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Daniel F. Pena  
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Rishi Roshan Persad  
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Aleksander J. Petersen  
Westfield

Valerie J. Rafalko  
Fords

Bindiya R. Rana  
Wallington

Charles A. Rosso Jr.  
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Morganville

Gunjit Singh Sawhney  
South Orange

Sanuj Shanavas  
Jersey City

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North Arlington
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- Jonathan Howard Fischer
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- Owen James Fitzgerald
  Monroe Township
- William Fitzgerald
  South River
- Nelson Fraga
  Paterson
- Ching-Yi Hsu
  Lake Hiawatha
- Keith J. Kenny
  Monroe Township
- Leighton G. Lowers
  Yonkers, NY
- Salvatore L. Minervini
  Little Ferry
- Uros Nikolic
  Clark
- Oluwaseye Richard Osinowo
  Woodbridge
- Jitesh A. Patel
  Cranbury
- Luis Alfredo Ramirez
  Staten Island, NY
- Felix Romain
  Princeton
- Keisha Alicia Thomas
  Irvington
- Construction Management
  Technology Option
- Pedro Timoteo Da Silva
  Warren
- Christopher Joseph La Rocca
  Caldwell
- Glenn Edward Milarczyk
  Vernon
- Brian E. Mizerek
  Augusta
- Hugo Miguel Pestana
  Newark
- Sevgi Topakli
  New Brunswick
- Luis Enrique Valencia
  North Bergen
- Electrical and Computer
  Engineering Technology Option
- Isamar I. Blumberg
  Franklin Park
- Kevin L. Blyther
  Parsippany
- Daniel Botero
  Parsippany
- Seth W. Burgin
  Pompton Plains
- Agustin H. Calle Mangiante
  Perth Amboy
- Michael W. Choquette
  Somerville
- Baron Jerome Cisrow
  Jersey City
- Terry K. Cox
  Glen Gardner
- Leonardo L. DaSilva
  Paterson
- Gurbuz Dolu
  Monroe Township
- John T. Dunning
  Hillborough
- Lawrence R. Durante
  Cinnaminson
- Nicholas J. Eng
  Union Beach
- Kenia E. Fernandez
  Perth Amboy
- Larry H. Feuling
  Whippany
- Wendy Patricia Funex
  Newark
- Mudassar Hassan
  Jersey City
- Miles Joseph Hoffman
  Pomona
- Shahbaz Humayun
  Greensboro, NC
- Ryon N. Hyde
  Morristown
- Victor H. Ibarra
  Somerset
- Sudeep J. John
  East Hanover
- Yevgenyi Klyshnichenko
  Scotch Plains
- Minilik Lakew
  West Orange
- Kevin M. Lopez
  Pompton Plains
- Jose Humberto Lozano
  Newark
- Ryan Thomas MacIntire
  Stratford
- Samuel P. Mendes
  Kearny
- Joses N. Michel
  Central Nyack, NY
- Kevin A. Miller
  Burlington
- Chintan N. Modi
  Paramus
- Miten Patel
  South Plainfield
- Rajesh Prahlad Patel
  Piscataway
- Kevin L. Patterson
  Woodbridge
- Marc E. Pfingst
  Paramus
- Aakanksha R. Rana
  Lodi
- Kaushal T. Rana
  Passaic
- Andre' V. Regimbal
  Branchburg
- Krystian Rivera
  Paterson
• Margarita Rodriguez
  Paterson
  North Bergen

• Rafael Rodriguez
  North Bergen

• James J. Samolowicz
  Newark

• Jason Robert Shedden
  Whippany

• Roger Springer
  Irvington

• Moses Osareme Bernard Ukpebor
  Edgewater Park
  North Bergen
  New Jersey

• Christopher S. Viegas
  Newark

• Kiriti Voruganti
  Edison

• Abdul Wakeel Wahab
  Howell

• Reginald Warren
  Matwan
  Manufacturing Engineering
  Technology Option

• Robert L. Bajkowsi
  Bloomfield

• Sanjay K. Basheri
  Iselin
  Mechanical Engineering
  Technology Option

• Donovan George Rodney
  Paterson

• Pranay Singhvee
  Newark
  Mechanical Engineering
  Technology Option

• Mutudeen O. Ajadi
  Newark

• Jonathan Francis Backman
  Flanders

• Philip A. Barnes
  Milltown

• Viktor Antonio Bohorquez
  Randolph

• Michael Robert Celauro
  Colonia

• Darrin Scott Chambers
  Newton

• Tyler Danielson
  Oak Ridge

• Gregory Joseph Dwyer
  Wayne

• Joseph M. Falzon
  Freehold

• Brian S. Gould
  Monroe Township

• Paul A. Haro
  Newark

• Ryan William Hatch
  Belvidere

• Steven T. Lecky
  Edison

• Jonathan Jamar Lewis
  Springfield

• Jason Mages
  South Amboy

• Aimee Matarese
  Towaco

• William Gregory McGinley
  Lake Hiawatha

• Jorge A. Medina
  Clifton

• William N. Onwuka
  Hackensack

• Nirmal H. Sadarangani
  North Brunswick

• Tai Y. Su
  Parsippany

• Abdulrehman M. Valiulla
  Avenel
  Surveying Engineering
  Technology Option

• Benjamin Yaw Atsem
  Orange

• Pradeep Bhadur
  Montclair

† William R. Cujdik
  West Deptford

• Frank Devito
  Clifton

• Brian A. Drucker
  Commack, NY

• Christopher M. Ernst
  Monroe

• John Joseph Galiano
  Totowa

† Thomas Kevin Hanna
  Newton

• David Jamiolkowski
  Pringle, PA

Paul Michael Koelling
  Northfield

• Jean David Lochard
  Orange

• James M. Neumann
  Piscataway

• Joseph O’Mahoney
  West Milford

• Robert Kenneth Sanchez
  Union Beach

• Arthur F. Senor
  Glenwood
  Telecommunications Management
  Technology Option

• David W. Bolduc
  Garwood

• Carol K. Ongwenyi
  Monmouth Junction

• Narendra G. Patel
  Princeton

• Richard Thomas Shaub
  Layton
### ENVIRONMENTAL ENGINEERING

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<tr>
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</tr>
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<td>Iselin</td>
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### INDUSTRIAL ENGINEERING

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Belleville

• Saurabh K. Khetan
Martinsville

Tomasz K. Krawiecki
Wallington

• Steven Kum
Staten Island, NY

Anna Le
Newark

Nelton Lewis
Maplewood

Roman M. Losev
Newark

Albert S. Mabilangan
Bridgewater

Shivani Malhotra
Fair Lawn

Adam Phillip Maslowski
Wayne

• Abhishek Mathur
Metuchen

Christopher D. Mattessich
Whippany

• Hiren Mehta
Jersey City

Alfred Franklin Miller
Hillsborough

Kwesi S. Mitchell
Piscataway

• Frank Munoz
West New York

Deoraj Naraine
Passaic

JiYou Ni
Newark

• Ekenechukwu Ofoma
Marlboro

Dennis James O’Neill
Newton

Ronald Ongori
Bayonne

Vilma Luz Suarez Ossa
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• Joseph M. Pacella
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Ringoes

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• Mehul Patel
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Elizabeth

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Little Falls

• Steven C. Sadowski
South River

Mostafa Sakr
West Paterson

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Fort Lee

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Edgewater

Durgesh Sethi
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• Ryan Charles Shaker
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Wood Ridge

• Gurpreet Singh
Saddle Brook

Ketline Anne M. St. Victor
East Orange

• Shaun R. Sumulong
Woodbridge

Sean M. Swaszek
Budd Lake

• Oluamide A. Talabi
Newark

• Robert J. Tani
Clifton

Erika Jean Natal Taugher
Newark

Jaime Torres
Union

• Imran Uddin
Paterson

• Andrew Scott Van Dyke
Nutley

Brian Dongwook Won
Edison

• Justin H. Woo
Livingston

William P. Yuan
Metuchen
**CANDIDATES FOR BACCALAUREATE DEGREES**

**NEW JERSEY SCHOOL OF ARCHITECTURE**

**BACHELOR OF ARCHITECTURE**

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#### APPLIED PHYSICS
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#### BIOLOGY
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#### CHEMISTRY

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#### COMMUNICATION

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#### SCIENCE, TECHNOLOGY AND SOCIETY

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<td>Marc Eric Ubaldi</td>
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*Note: Names marked with an asterisk (*) indicate students who have been selected for a specific award or recognition.*
**Biology**  
(Degree conferred jointly by NJIT and Rutgers-Newark)  

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</tr>
<tr>
<td>Ridhdhi Dipak Upadhyaya</td>
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**History**  
(Degree conferred jointly by NJIT and Rutgers-Newark)  

<table>
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<tr>
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**BACHELOR OF SCIENCE IN MANAGEMENT**

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## Candidates for Baccalaureate Degrees

### College of Computing Sciences

#### Bachelor of Science

**BIOINFORMATICS**
- John S. Acampado
  Bridgewater
- Jaspid Kaur
  Belin
- Jalpa D. Patel
  Edison
- Sui M. Tse
  Edison

**COMPUTER SCIENCE**
- Gentian Agastra
  Avenel
- Payal D. Babaria
  North Bergen
- Johnathan Paul Bamber
  Bloomfield
- Noah B. Blecher
  Washington Township
- Daniel J. Boston
  Pittsgrove
- Mohammed Badr Bouaichi
  North Plainfield
- David Allan Branin Jr.
  Ocean Grove
- Christopher P. Brennan
  East Brunswick
- Kristan Vishal Budhu
  Maplewood
- Peter L. Burzi
  Manalapan
- Christine Chin
  Long Branch
- Jason M. Chin
  Yorktown Heights
- Andrew N. Corea
  Teaneck
- Ray Crego
  Roselle Park
- Burim Dauti
  Wayne
- Michael David
  Belleville
- Michael DeCaro
  Clifton
- Marc Della Volpe
  Warren
- Jason A. Di Donato
  Sicklerville
- Matthew S. Edzenga
  Stamford, CT
- David A. Everett
  Oak Ridge
- Andrei Filipovich
  Kearny
- Christian A. Gaviria
  Port Monmouth
- Jeffrey John Gordon
  Cedar Grove
- Donald M. Grote
  New Egypt
- Jordan Scott Henderson
  Neptune
- Adam J. Hines
  Stamford, CT
- Steven M. Iannelli
  Washington Township
- Kajal C. Kabaria
  Royal Palm Beach, FL
- Nilesh M. Kabaria
  Roselle
- Joseph R. Kennedy
  Ridgefield Park
- Steven J. Komosinski
  South Amboy
- Nishat B. Korada
  Newark
- Jean Valentin Laurier
  Irvington
- Yun Chi Li
  Cedar Grove
- Milap H. Modi
  Fords
- Sanjay Muddam
  North Brunswick
- Asim Naseer
  Kenner, LA
- Cuong V. Ngo
  Somerville
- Tarcisio Lopes Nunes
  Lyndhurst
- Satish Patel
  Frisco, TX
- Timothy L. Patton
  Mount Laurel
- Hannibal H. People
  Plainfield
- Katy E. Perez
  Long Branch
- Brian G. Peyton
  Milford
- Huseini Quaye
  Eatontown
- Juan Quezada Jr.
  Union City
- Shawn L. Roberson
  Paterson
- Julio R. Rojas
  Edison
- Abraham D. Rosales
  Newark
- Edwin Alexander Ruiz
  Carteret
- Joseph Alexander Ruiz
  Hopatcong
- Pradip S. Savalia
  Lake Hiawatha
- Mark C. Scheuble
  Parsippany
- Richard Paul Schuler III
  East Rutherford
- Daniel J. Scola
  Red Bank
- Tommy Setiawan
  Livingston
- Meena D. Shelat
  Pine Brook
- Piotr M. Sienkiewicz
  Ridgewood
- Kai Tang
  Kearny
- Joseph P. Terranova
  Cherry Hill
- Alexander H. Terzian
  Livingston
- Blair Thompson
  Mount Tabor

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50
Alexandr Virodov
Fair Lawn
• Frank E. Vitolo
Toms River
Gregory Wilhelm Wagner
Wilbraham, MA
Steven T. Watkins
Hillside
• Hanna Zacharia
Mahwah

HUMAN COMPUTER
INTERACTION
(Degree conferred jointly by NJIT
and Rutgers-Newark)
Donald M. Hiles
Cream Ridge
Galen S. Rice
Scotch Plains
John Scanlan
Wood Ridge
• Daniel P. Tymesko
Jackson
Kotaro Yamaguchi
Garfield

INFORMATION SYSTEMS
Jeffrey E. Chan
Keyport
• Eugene Cho
Pulisades Park
• Souleymane Cisse
Elizabeth
Joseph J. DeFilippo
Bloomfield
Rosa E. Fajardo
Newark
Luís Miguel Figueroa
North Bergen
Shannon Marie Hampton
Willingboro
Randall A. Hesse
Maplewood
Ok Hyun Kim
Pulisades Park
Nathaniel D. Laws
Whippany
Jeffrey M. Miller
Middletown
• Walter James Schmidt
Freehold

INFORMATION TECHNOLOGY
David K. Abadie
South Amboy
Mark A. Argente
Piscataway
• Jeetinder Badwal
Iselin
Jonathan Andrews Baldeon
North Plainfield
Nolan John Baptiste
Marlboro
• Nicholas Michael Benedetti
Ringoes
• Joseph P. Burger
Parsippany
Anyu S. Chang
Edison
• Garima Chauhan
• ChuHui Chong
Piscataway
Cliffside Park
Katherine M. Cutugno
Montville
Michael Nicholas Del Pozzo
Allenwood
• Manuel E. Diaz
Harrington Park
Daniela Maria Echeverria
Fair Lawn
Rebecca Janell Ellis
Erial
Andrew Fernandez
North Bergen
• F. Daniel Fischbach
Cherry Hill
• Brian Michael Gadaleta
Neptune
Aileen M. Gonzalvo
Bridgewater
Billy Dee Goodwin
Irvington
Dominic Franklin Hart
Newark
Richard Henry
Manalapan
Michael Jeffrey Isbitski
Stewartsville
Mohamed Musa Jalloh
Jersey City
Uzma Jamal
Jersey City
• Thomas R. Johnson
Newark
Devarsh Saurabh Joshi
Edison
Michael J. Jubina
Belford
Jonathan B. Kahn
Maplewood
Daniel R. Kapica
Bayside, NY
• Peter J. Klabe
Palmyra
Jonathan R. Koziol
Linden
Serge Andy Lamothé
Maplewood
• Joanna E. Lebida
Wallington
Christopher E. LeBoeuf
Bloomfield
• Kimler D. Livingston-Williamson
East Orange
James E. MacWilliam
Dumont
• Amith Dale Mansukh
Phillipsburg
• Daniel Margarido
Hillside
Tendai R. Mhute
Newark
Mathew B. Miller
Toms River
† Lionel J. Morata  
Paterson  
Stephen M. Nilan  
Sussex  
Dominic J. Pace  
Point Pleasant  
David M. Parenti  
Elizabeth  
† Akshay Shashikant Patel  
North Bergen  
Amish A. Patel  
La Plata, MD  
† Kalpesh Patel  
Elmford, NY  
Parul V. Patel  
Nutley  
Nicolette De Carla Phillips  
Orange  
Brian E. Pinney  
East Windsor  
Jasmine Varnel Raeford  
Jersey City  
Adeela Rana  
Harrison  
† Sarong Rath  
Trenton  
† David R. Reed  
Manville  
• John W. Ryon  
Edison  
Erik Arthur Schuckel  
Lake Hopatcong  
Jason A. Scoppettuolo  
Ringoes  
Edward C. Semler  
Ridgewood  
Kamal B. Shah  
Thornwood, NY  
Saadia Shafati Shamsie  
Fords  
• Akshar Sidana  
Iselin  
Christianssen C. Siddayao  
Cilton  
Marc Simpson  
Toms River  
Abdullatif Smith  
Jersey City  
• Timothy Sneed  
Mount Holly  
• Amy A. Steed  
Lodi  
James R. Stump  
Lodi  
Anthony Swietlik  
Trenton  
Chris Bryan Targia  
Manalapan  
• Andrew Ryan Tauber  
Summit  
• Arunas Trukanavicius  
Ocean Grove  
• Prinston G. Tses  
Morganville  
• Muhammad Umer  
Englewood  
Allan Valencia  
Belleville  
Ramtin Vaziri Khorrami  
Livingston  
• Jason D. Voss  
Brielle  
• Wade Anthony Wojcak  
Newark  
• Christopher Wong  
Monroe Township  
† Mark Yanney  
East Brunswick  
Christopher W. Youakim  
Oradell  
Syeda Zanib  
Jersey City  
† William N. Zimmerman  
Woodbridge

BACHELOR OF ARTS

COMPUTER SCIENCE  
(Degree conferred jointly by NJIT and Rutgers-Newark)  
† Melik Kavcar  
Hoboken  
Stanley G. Louissaint  
Elizabeth  
• Mona Manchanda  
Watchung  
† Dishant A. Patel  
Colonia  
• Jilna K. Patel  
Burlington  
INFORMATION SYSTEMS  
(Degree conferred jointly by NJIT and Rutgers-Newark)  
• Brian David Ashton  
Ringwood  
Jodimir R. DaSilva  
Newark  
Joelisio Dos Anjos  
Hasbrouck Heights  
Sophokles Georgiou  
Elizabeth  
Kahleela Kuneisha Gordon  
Newark  
• Robert C. Kleinot  
Sewell

Matthew T. Luminoso  
Union Beach  
Bhavnaben C. Patel  
Passaic  
† Anthony Rocco Scotellaro  
Harrison  
† Orkun Lutfi Urun  
Middletown
### HONORS DESIGNATIONS

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### HONORS DESIGNATIONS

*Honors Scholar — graduate of the Albert Dorman Honors College*

The following designations are based upon cumulative grade point averages achieved prior to the spring semester:

- **summa cum laude** — with highest praise
- **magna cum laude** — with great praise
- **cum laude** — with praise
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## MARSHALS

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<th>George Abdou</th>
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<td>Donna Minnich-Spuhler</td>
<td>William Van Buskirk</td>
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<td>Rose Federici</td>
<td>Durga Misra</td>
<td>Methi Wecharatana</td>
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<td>Peggy Fitzpatrick</td>
<td>Robert Moran</td>
<td>Mengchu Zhou</td>
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## READERS

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<th>Janet Bodner</th>
<th>Robert Friedman</th>
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<td>Norbert Elliot</td>
<td>Carol Johnson</td>
<td>Jerome Paris</td>
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## GONFALON CARRIERS

- Newark College of Engineering
  - Owen Fitzgerald
- New Jersey School of Architecture
  - Ninett Moussa
- College of Science and Liberal Arts
  - Nishanth Thomas
- School of Management
  - Peter Cucchiara
- Albert Dorman Honors College
  - Trevor Munson
- College of Computing Sciences
  - Gregory Wagner
AWARDS EARNED FOR ACHIEVEMENT IN THE YEAR OF GRADUATION

AMMCO Scholarship
Yasmine H. Aly

Edward J. Bloustein Distinguished Scholars
Christopher R. Fox
William K. Lang Jr.
Henry Loo
Stephanie Monteiro
Shafali N. Patel
Eman R. Rashed
Christopher Sakowski

A. Cohan Scholarship
Robert Joseph Horvath Jr.

David Crammins Scholarships
Vatsal A. Shah

Construction Management Association of America Foundation Scholarship
Owen Fitzgerald

Construction Roundtable Scholarship
Ankita M. Patel

Allan R. Cullimore Scholarship
Jason Kalwa

Schoor DePalma Scholarship
William Dungo
Owen Fitzgerald

Dendrite Scholarship
Johnathan Bamber

Frank L. DiMitri Scholarship
Owen Fitzgerald

EMMI Foundation Scholarship
Stephanie Monteiro

Exxon-Mobil Scholarship for Female Chemistry Students
Tanya J. Martinez

Frank Gallagher Memorial Scholarship
Gladys A. Durand

Gilbert Glass Scholarship
Arlene Pineda

Peter Homack Scholarship
Henry Loo

James Kennedy Scholarship
Christopher Sakowski

Kimmel & Associates Scholarship
Owen Fitzgerald

Kreitchman Scholarship
Faibian A. Duncan

Madame Mau Outstanding Female Engineering Student Endowment Award
Valerie Rafalko
Shruthi Shankar

Merck Engineering & Technology Fellowship
Rudina Bajrashi

Raymond McGowan Family Endowed Scholarship
Yasmine H. Aly
Stephanie Monteiro

National Starch Foundation Award
Stephanie Monteiro

Newark College of Engineering Outstanding Senior Award
Owen Fitzgerald

Newark College of Engineering Outstanding Senior Award - Biomedical Engineering
Nishant Vyas

Newark College of Engineering Outstanding Senior Award - Otto H. York Dept. of Chemical Engineering
Stephaine Monteiro

Newark College of Engineering Outstanding Senior Award - Civil & Environmental Engineering
Indira Naranjo

Newark College of Engineering Outstanding Senior Award - Electrical & Computer Engineering
Chris Sakowski

Newark College of Engineering Outstanding Senior Award - Engineering Technology
Owen Fitzgerald

Newark College of Engineering Outstanding Senior Award - Industrial Manufacture Engineering
Andrea Kimbrough

Newark College of Engineering Outstanding Senior Award - Mechanical Engineering
Jiyou Ni
A W ARDS EARNE D FOR ACHIEVEM ENT IN TH E YEAR OF GRAD UATION

New Jersey Institute of Technology
Faculty Scholarship
Christine Chimento
John Cua
Shawn Dungo
William Dungo
Christopher R. Fox
Jeremy Gayed
Jason Kalwa
Henry Loo
Stephanie Monteiro
Jeanina Perez
Arlene Pineda
Eman R. Rashed
Kamal Shah
Vastal A. Shah
Shruthi Shankar
Noble Vale

New Jersey Institute of Technology Presidential Scholarship
Kamal Shah

New Jersey Institute of Technology Provost Fellowship
Souleymane Cisse
Vivian Ozoka

New Jersey Institute of Technology Recruitment Program Scholarship
Shawn Dungo
Christopher R. Fox
Jason Kalwa
Henry Loo
Eman R. Rashed
Christopher Sakowski

New Jersey School of Architecture Dean’s Design Award
Erin Ross

Pelson Scholarship
Gladys A. Durand

J. Frank Perantoni Scholarship
Robert Verrengia

Quasdi Foundation Scholarship
Jeremy Gayed

Schering-Plough Scholarship
Mark A. Argente
Shruthi Shankar

W. Paul Stillman Trust Scholarship
Arlene Pineda

Turner Construction Company Endowed Scholarship
Martin P. Dale
Shafali N. Patel

Turner Construction Roundtable Scholarship
Ankita M. Patel

Arthur E. Vesco Scholarship
Ankita M. Patel

Anne Wiley Scholarship
Stephanie Milczarski

Jim Wise Scholarship
Alexa McCartney
Arlene Pineda

Norman W. Wyckoff Memorial Scholarship
Robert J. Horvath Jr.
IN RECOGNITION OF THE CLASS OF 2008

Proud parents, family and friends have recognized the accomplishments of individual members of the Class of 2008. Gifts, in their honor, have been made to the university to provide support for future generations of graduates.

In the honor of our son
Joseph L. Aduna
Daddy & Mommy

In honor of our son
Philip Barnes
Arnold & Autumn Barnes

In honor of our daughter
Altonique Romana Brooks
Alton & Barbara Faltz

In honor of our daughter
Kate Daumer
Mom & Dad

In honor of our son
Michael N. Del Pozzo
Michael & Linda Del Pozzo

In honor of our son
Jacek M. Duda
Krystyna & Witold Duda

In honor of my son
William Dungo
Leonora Dungo

In honor of our son
Owen J. Fitzgerald
Kevin & Karen Fitzgerald

In honor of our husband & father
Tomas Gregorio
Theresa, Meg, Leo & Max

In honor of our son
Jiogy Edward Grundy
Grundy Family, Jorge, Isabel, Tosh & Yoshi

In honor of our son
Daniel R. Kapica
Dolores & Ken Kapica

In honor of our son
Kliti Kodra
Shkelqim & Shpresia Kodra

In honor of our son & husband
Chris Lindway
Emily & Becca

In honor of our son
Christopher Dennis Mattessich
Ute & Dennis Mattessich

In honor of our son
William McGinley
The McGinley Family
Kelly M. McGinley
Barbara A. McGinley
Florence G. McGinley

In honor of our son
J. Kenneth Modrow
Douglas & Kathy Modrow

In honor of our son & brother
Brad Neggers
Mom, Pops & Maggie

In honor of our son
Chukwumeneka J. Odenigbo
Mr. & Mrs. Innocent C. Odenigbo

In honor of our son
David M. Parenti
Mom, Dad, Chris & Anthony

In honor of our daughter
Arlene V. Pineda
Menandro & Ameilia Pineda

In honor of our son
Christopher B. Targia
Mom, Dad & Grandma Marge

In honor of our son
Johnathan James Van Duyne
John & Donna Van Duyne
(Mom & Dad)

In honor of our son
Andrew M. Woo
Morgan & Mabel Woo
IN RECOGNITION OF FAMILY AND FRIENDS
Members of the Class of 2008 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 undergraduates.

In honor of my friend
Alejandra Durand
Adam

In honor of my mom & dad
Loreto & Betty Aduna
Joseph Loreto Aduna

In honor of my father
Teng-Sung Chang
Chi Hyuan Chang

In honor of my husband
Sehidou Diaby
Fatoumata Diaby

In honor of my mother
Vrunda Kulkarni
Vanashri Kulkarni

In honor of my mother-in-law
Geeta Upadhyya
Vanashri Kulkarni

In honor of my parents
Mom & Pelagia
Sherwin Marquinez

In honor of my brother
Salvo
Sherwin Marquinez

In honor of my wife
Carmel
Sherwin Marquinez

In honor of my family
Barbara A. McGinley
Florence G. McGinley
Kelly M. McGinley
William G. McGinley

In honor of my mom
Nelly Bones
Uri L. Perez

In honor of my wife
Diameila Cariel
Uri L. Perez

In honor of my mother & father
Mr. Raman & Mrs. Bhuvaneswari Raman
Nithya Raman

In honor of my parents-in-law
Mr. R.G. Rajagopalan & Mrs. Premavathy
Nithya Raman

In honor of my brother
Mr. Dinesh Kumar Raman
Nithya Raman

In honor my friend
Lonzo Morrow
Jamie Ellen Reid

In honor of my mom & dad
Eugenia Shillingord Stewart & Glenford Stewart
Johann Glen Stewart
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BD
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, New Jersey 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.

At the height of this age of innovation in 1881, an act of the New Jersey State Legislature essentially drew up a contest to determine which municipality would become home to the state’s urgently needed technical school. The challenge was straightforward enough: The state would stake “at least $3,000 and not more than $5,000” and the municipality that matched the state’s investment would earn the right to establish the new school.

The Newark Board of Trade, working jointly with the Newark City Council, launched a feverish campaign to win the new school. Dozens of the city’s industrialists, along with other private citizens, eager for a work force resource in their hometown, threw their support behind the fund-raiser. By 1884, the collaboration of the public and private sectors produced success. Newark Technical School was ready to open its doors.

The first 88 students, 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 fund-raiser—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 but 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 1975, 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 and the opening of NJIT’s
first dormitory in 1980 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, two new schools were established at the university during the 1980s, the College of Science and Liberal Arts in 1982 and the School of Industrial Management in 1988. The Albert Dorman Honors College was established in 1994, and the newest school, the College of Computing Sciences, was created in 2001.

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 New Jersey’s oldest 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 will serve as a consultant for technology evaluation and develop prototypes of integrated homeland security systems for testing, demonstration and training. The Center will focus 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 2007 Annual Guide to America’s Best Colleges. U.S. News also named NJIT the nation’s ninth most diverse institution of higher education. According to Forbes.com, NJIT ranks among the nation’s 25 “most connected” campuses. The Princeton Review named NJIT among the nation’s top 25 campuses for technology and top 150 for best value. In addition, Diverse Issues in Higher Education ranks NJIT among the nation’s leading schools for graduating minority engineering students.

Within this decade, we will see NJIT 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 mastership. 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 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 in which degree-granting programs were initiated.

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.

New Jersey School of Architecture carries as its symbol a representative 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.