



CORE SKILLSETS AND COURSES

- **Computer Systems**
Computer components and operations;
Computer architecture and networking;
Computer operating systems
- **Data and Information**
Probability and statistics; Signal
processing; Analog and digital
communication
- **Learning and Control**
Time and frequency domains;
Feedback control; Digital control;
Machine learning
- **Image Science and Computer Vision**
Computer graphics; Machine vision;
Image processing
- **Circuits and Electronics**
Analog and digital circuits; Circuit
analysis, simulation, and design; Micro-
electronics; Integrated circuits, VLSI
- **Energy and Power**
Electromagnetic fields and waves;
Power grids; Renewable sources;
Electric machines
- **Design and Teamwork**
Embedded control; Engineering design;
Multidisciplinary capstone design

FOCUS AREAS

- AI and Machine Learning
- Computer Vision and Image Processing
- Communications and Computer
Networks
- Control Systems
- Robotics and Automation
- Computer Hardware Systems
- Electric Power and Energy
- Microelectronics and Photonics
- Mixed Signal Electronics

ABOUT ELECTRICAL, COMPUTER, AND SYSTEMS ENGINEERING

Founded in 1907, one of the first Electrical
Engineering programs in the U.S.

Students

- 591 Undergraduates
- 16 Masters Students
- 95 Doctoral Students

Ranked 42th (EE), 42th (CSE) in 2023
U.S. News & World Report Graduate
Rankings



Ranked 24th in 2022 TFE Times Best
Master's of Computer Engineering
Programs

Ranked 25th in 2022 College Factual
Best Electrical Engineering Programs

Ranked 26th (EE), 25th (CSE) in 2022
U.S. News & World Report Undergraduate
Rankings

Degrees Offered

- Electrical Engineering (B.S., M.S., Ph.D.)
- Computer Systems Engineering (B.S.,
M.S., Ph.D.)
- Minors in Electrical Engineering, Computer
Systems Engineering

Dual Major Opportunities

- Electrical and Computer Systems Engineering,
Computer Science, Applied Physics, ITWS

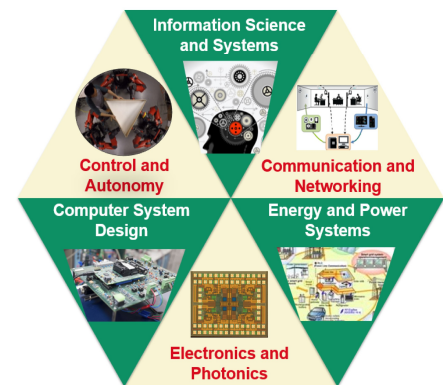
Undergraduate Opportunities

- Undergraduate Research Projects,
Internships, Co-ops, Study Abroad

Graduate Student Support

- Almost all doctoral students receive
financial assistance

RESEARCH AREAS



AFFILIATED RESEARCH CENTERS

- Center for Materials, Devices, and Integrated
Systems (CMDIS) cmdis.rpi.edu
- Center for Future Energy Systems (CFES) cfes.rpi.edu
- NSF Engineering Research Center for Lighting
Enabled Systems and Applications (LESA) lesa.rpi.edu
- NSF Engineering Research Center for Ultra-
Wide-Area Resilient Electric Energy Transmis-
sion (CURENT)
- Cognitive and Immersive Systems Lab (CISL) cisl.rpi.edu
- Center for Mobility with Vertical Lift (MOVE) move.rpi.edu
- Center for Initiatives in Pre-College Education
(CIPCE) cipce.rpi.edu

CONTACT US

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FACULTY

- 27 Tenured/Tenure-Track
- 6 Lecturers and Professors of Practice
- 11 IEEE Fellows, 8 NSF CAREER Awards
- \$10M annual research expenditures

STAFF

- 3 Technical
Support Staff
- 4 Administrative
Support Staff

