



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 31st (EE) 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

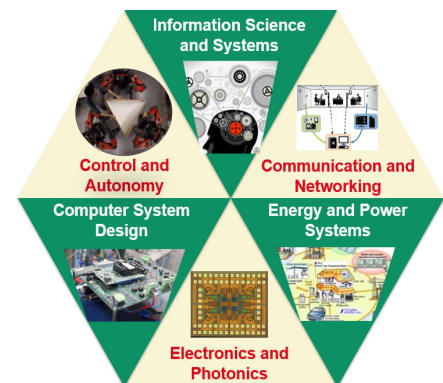
Undergraduate Opportunities

- 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

