

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

CONCENTRATION AREAS

- Microelectronics
- Photonics
- Computer Hardware
- Power Electronics
- Power Systems
- AI & Learning
- Vision & Imaging
- Communication & Network Science
- Control & Automation
- Robotics

ABOUT ELECTRICAL, COMPUTER, AND SYSTEMS ENGINEERING

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

Students

- 766 Undergraduates
- 41 Masters Students
- 94 Doctoral Students

Ranked 39th (EE), 45th (CSE) in 2020 U.S. News & World Report Graduate Rankings



Ranked 22nd in 2020 TFE Times Best Master's of Computer Engineering Programs

Ranked 31st in College Factual Best Electrical Engineering Programs (8th in Mid-Atlantic)

Degrees Offered

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

Dual Major Opportunities

- Computer Science, Mechanical Engineering, Biomedical Engineering, Applied Physics

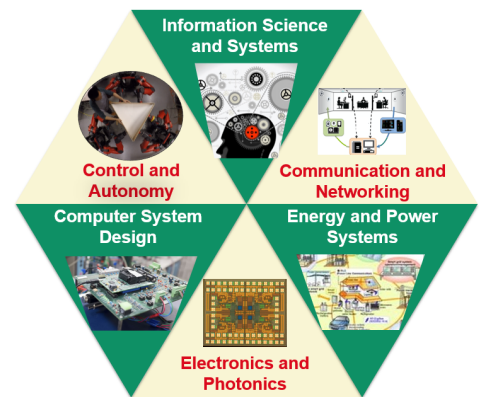
Undergraduate Opportunities

- 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 Automation Technologies and Systems (CATS) cats.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 Transmission (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
- 7 Lecturers and Professors of Practice
- 7 IEEE Fellows, 6 NSF CAREER Awards
- \$10M annual research expenditures

STAFF

- 3 Technical Support Staff
- 5 Administrative Support Staff

