

DEPARTMENT OF ELECTRICAL AND COMPUTER ENGINEERING

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Professor and acting chair

[electrical-and-computer.egr.vcu.edu \(https://egr.vcu.edu/departments/electrical/\)](https://egr.vcu.edu/departments/electrical/)

The Department of Electrical and Computer Engineering prepares students for highly competitive, national placement in electrical and computer engineering employment and graduate education by providing a thorough grounding in electrical science and design, together with a sound foundation in mathematics, basic sciences and life skills.

The department offers baccalaureate degrees in computer engineering and electrical engineering, in addition to minors in both areas, as well as the option to choose course work appropriate for a pre-medicine or pre-dentistry curriculum. An electrical and computer engineering track is available in the Master of Science in Engineering as well as the Ph.D. in Engineering. The track is designed to prepare students for practice, research and/or teaching of electrical and computer engineering at the advanced level by providing intensive preparation for professional practice in the microelectronics, nanoelectronics, computer engineering, and controls and communications aspects of electrical and computer engineering. At the advanced level, this track prepares individuals to perform original, leading-edge research in the broad areas of microelectronics, nanoelectronics, controls and communications, and computer engineering.

The curricula of the department provide a strong foundation in the fundamentals of the profession, including engineering problem-solving, breadth in the major facets of the profession and the opportunity to specialize in today's critical areas of computer engineering, communication systems and microelectronics. Graduates will be well prepared for constant technological change and growth through lifelong learning.

Students who complete the requirements for the below will receive a Bachelor of Science in Computer Engineering.

- Computer Engineering, Bachelor of Science (B.S.) (<https://bulletin.vcu.edu/undergraduate/engineering/electrical-computer-engineering/computer-engineering-bs/>)

Students who complete the requirements for the below will receive a Bachelor of Science in Electrical Engineering.

- Electrical Engineering, Bachelor of Science (B.S.) (<https://bulletin.vcu.edu/undergraduate/engineering/electrical-computer-engineering/electrical-engineering-bs/>)
- Computer engineering, minor in (<https://bulletin.vcu.edu/undergraduate/engineering/electrical-computer-engineering/computer-engineering-minor/>)
- Electrical engineering, minor in (<https://bulletin.vcu.edu/undergraduate/engineering/electrical-computer-engineering/electrical-engineering-minor/>)