MERRIMACK COLLEGE

SCHOOL OF
SCIENCE & ENGINEERING

ELECTRICAL ENGINEERING

Electrical Engineers are involved in the design, manufacture, and operation of everything electrical, from microprocessors and communications to electric power and RFID (Radio Frequency Identification). Opportunities range from building hardware such as radar equipment to interfacing between software and hardware using microprocessors.

Electrical engineering students at Merrimack become outstanding electrical engineers within a challenging and inspiring learning environment while actively contributing to the broader Merrimack and professional communities.

ENGAGING COURSEWORK

A dynamic curriculum builds strong practical knowledge from introductory classes to specialized coursework. Our B.S. in Electrical Engineering program is accredited by the Engineering Accreditation Commission of ABET (http://www.abet.org).

A selection of program coursework includes:

- EEN 2130 Circuit Theory I
- EEN 2270 Embedded Microprocessors
- EEN 3430 Engineering Electromagnetics I
- EEN 4270 Feedback Circuits

REWARDING CAREER PATHS

Electrical engineers participate in a wide range of opportunities, finding employment in areas such as Computer Engineering, Electronics, Power Systems, and Image Processing & Robotics. Employers include the manufacturing industry, the federal government, and public utilities.

Close to 100% of Merrimack's electrical engineering students find work within two months of graduation, and many commit to jobs before graduation. According to the Bureau of Labor Statistics, starting salaries of engineers are among the highest of all college graduates.

Our alumni are employed at companies such as Raytheon, Analogic, National Grid, Analog Devices, and Vicor.

PROGRAM HIGHLIGHTS

Senior Capstone Project
These projects give the student an opportunity to practice and combine concepts from courses in the EE curriculum and individual interests. Past Capstone projects have included:

- **"Robo-Claw"**
  A microcontroller based vehicle with multiple sensors and actuators to detect and pick up objects under program control.
- **Wireless Process Control Interfacing**
  Interfacing process control computers to various process sensors, like temperature, volume and pressure, via a wireless link. This project was sponsored by a local drug manufacturer who had a problem with interface cabling costs and reliability. The Merrimack student developed a lower cost solution.
- **Microcontroller based sneaker prototype**
  The sneaker has "built-in" capability for computing a runner's pace, distance and running duration.

QUESTIONS?

Contact the **Electrical Engineering Department** at:

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