Our Focus is on YOUR Future

The Computer Engineering program at Michigan is one of the highest ranked in the country, making our students sought after for high-paying jobs in a wide variety of technical fields. Our computer engineering alumni can be found working at the following companies:

- Adobe
- AMD
- Analog Devices, Inc.
- Apple, Inc.
- AT&T
- Boeing
- Chrysler
- Cisco Systems
- Ford Motor Company
- Garmin
- General Electric
- General Motors
- Google
- Harris Corp.
- IBM
- Intel Corp.
- Microsoft Corp.
- Motorola
- NASA
- Nvidia
- Samsung Electronics
- Texas Instruments

as well as numerous other startups and specialized embedded system design companies. Our graduates also continue their education at the best graduate schools in the country, including the University of Michigan.

CE Degree = Shape the Future

Employers know that a CE degree from the University of Michigan implies the ability to design complete computer systems, from hardware to software.

High Average Salary

Computer Engineering degrees lead to some of the highest salaries in all professions (National Association of Colleges and Employers).

Prevalence of Jobs

Opportunities for computer engineers are projected to remain strong for the foreseeable future (Bureau of Labor Statistics).

From microcircuits to global networks, the computer engineering program at Michigan helps you to imagine and build the computational architectures that will shape our lives. Computer engineers make the Internet faster, design and build systems such as smartphones and electric vehicles, and will integrate technology in new applications in surprising ways. Computer engineers develop the computational systems that advance fields as varied as oil exploration, health care and medical devices, airplane design, and weather modeling.

If you wish to apply your engineering background to computers and computing systems in the field of your choice, join the ever-expanding field of computer engineering.

Undergraduate Programs in EECS

Department of Electrical Engineering and Computer Science

The University of Michigan

Electrical Engineering and Computer Science Department
Advising Offices: 3415 EECS, (734) 763-2305 and 2808 BBB, (734) 763-6563
eecs.umich.edu

Computer Engineering students will select at least one senior-level major design experience (MDE) course. Here’s what you’ll be doing in your MDE courses in computer engineering:

### Major Design Experience Courses

**Out of the Classroom**

Improving our World

Computer engineers are working to improve medical devices, consumer electronics, security, information technology, and transportation safety.

Researchers are ensuring the security and safety of implantable medical devices that rely on wireless communication.

Reliability in extremely small computers is being ensured through innovative, low-cost solutions.

Secure communication technologies are being developed that are resistant to monitoring and censorship.

Reduction of energy use in buildings is being investigated through the use of integrated pervasive sensors.

Very low-cost talking books are being developed for use in developing nations to improve child and maternal health in Ghana.

Objects and scenes are being translated into 3D sounds for the visually impaired.

Researchers are improving the safety of our automated transportation systems, such as air traffic control and automotive collision-avoidance systems.

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## Out of the Classroom

Our computer engineering students gain valuable experience through individual research opportunities with faculty, extracurricular projects and teamwork, as well as summer co-ops and internships. Here are some examples:

- Detect roadways with a robotic car.
- Design and implement software and hardware controls for a space satellite.
- Design and implement an internet video streaming system.
- Design microprocessor based systems.
- Develop a motion control wireless vehicle using Microsoft Kinect.
- Design and build PCB’s for mobile sensing modules.
- Work on Boeing’s 787 Dreamliner.

Keith Porter (pictured above) and Ansgar Strother co-founded the company, A2B Bikeshare, and won $10K in the 2013 Michigan Clean Energy Venture Challenge. Keith is currently a Growth Leader at the startup company, Kapture.

Rebecca Frank interned at Texas Instruments in hardware applications and at Qualcomm as a software engineering intern. She was also a team leader for the Better Living Using Engineering Laboratory. Rebecca is currently a design engineer at Ketra, Inc.

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