

What Can I Do With This **Ohio State** Major?

Bachelor of Science in Electrical and Computer Engineering
Electrical & Computer Engineering
College of Engineering

Electrical engineers and computer engineers work at the frontier of high technology and are involved in the creation of new ideas, and the design and development of new products, manufacturing, and marketing activities. The field of electrical engineering encompasses a very broad spectrum of technical areas, including computers and digital systems, electronics and integrated circuits, communications, systems and control, electromagnetics and photonics, energy conversion and power distribution, robotics, signal processing, and semiconductor devices. The field of computer engineering covers a wide range of topics including computer architecture, operating systems, communications, computer networks, robotics, artificial intelligence, supercomputers, computer-aided design, and neural nets.ⁱ

Career Areas/Job Titles

Management and Industry

Sales Person

Consultant

Manager

Entrepreneur

Marketing Specialist

Finance

Science and Technology

Systems Analysis

Software Design

Circuit Design

Antennas and Radar Engineering

Reliability Engineering

Audio Systems

Fiber Optics/ Lasers

Automotive/Aerospace/

Spacecraft Biomedical Devices

Nanotechnology

Sustainable Energy

Image Processor

Sensors

Artificial Intelligence

Patent lawyer

Medicine

Solar cells

Biomedical Informatics

Intelligent Transportation

Mobile Computing

Semiconductor Materials

Integrated Optics

Autonomous Vehicles

Micro-Electro-Mechanical

Systems Terahertz Devices

and Systems Manufacturing

Data processing/mining

Consumer Electronics

Education

K-12 Teacher

Professor

**Some careers may require licensure, certification, or further education. Talk to an advisor about specific requirements.*

Transferable Skills:

Computer Skills

Creating Innovative

Solutions Quantitative

Reasoning

Analytical/Critical Thinking

Problem Solving

Computer Programming

Engineering

Fundamentals

Mathematic Skills

Written

Communication

Teamwork

Willingness to Take

Risks

Conceptualization

Creativity/Imagination

Defining Needs

Identifying Problems

Setting Goals

Adaptability/Flexibility

Attention to Detail

Implementing

Decisions

Administrative Skills

Prioritizing Tasks

Strategic Planning/Visioning

**This is not an extensive list of transferable skills. See larger list of skills you might develop here:
<http://ccss.osu.edu>*

Professional Links:

Institute for Electrical and Electronics Engineers: <http://www.ieee.org/index.html>

American Society for Engineering Education: <http://www.asee.org/>