ELECTRICAL & COMPUTER ENGINEERING

KEY SKILLS

- Analytical
- Attention to Detail
- Clear Communication
- Complex Problem Solving
- Continual Learning
- Mathematics & Science
- Multitasking & Time Management
- Project Management

CONCENTRATIONS/SPECIALIZATIONS

- Computer
  - Artificial Intelligence & Robotics
  - Computational
  - Computer Architecture & Design
  - Cybersecurity
  - Hardware & Embedded Systems
  - Human-Computer Interaction (HCI)
- Electrical
  - Circuits
  - Control
  - Electromagnetics & Instrumentation
  - Microelectronics/Photonics
  - Nanotechnology
  - Power/Energy
  - Signal Processing
  - Telecommunications

SAMPLE DEGREES

- Computer Engineering (BS, BS/MS, MS, PhD)
- Computer Eng. + Electrical Eng. (BS)
- Computer/Electrical Eng. + Eng. Management (BS/MS)
- Electrical Engineering (BS, BS/MS, MS, PhD)
- Telecommunications Engineering (MS)

SAMPLE OCCUPATIONS

- Audiovisual Engineer
- Broadcast Engineer
- Circuits Engineer
- Computer Hardware Engineer
- Electrical Controls Engineer
- Lead Java Developer
- Network Engineer
- Photonics Engineer
- Power Electronics Design Engineer
- Project Manager
- Software Developer/Engineer
- Test Engineer
- Validation Engineer

POSSIBLE WORK SETTINGS

- Broadcasting/Media Company
- Federal Government
- IT Company
- Power Plant
- Production Company
- Robotics Manufacturing Company
- R&D Company/Startup
- Software Developer
- Telecommunications Company
- University/College
- Utilities Company
- Waste Management Company

SAMPLE STUDENT ORGS

- Energy Club GW
- Engineers Without Borders
- GWACM (Computing Machinery)
- Institute of Electrical & Electronics Engineers (IEEE)
- Systems Hacking Club
- The Engineers' Council

PROFESSIONAL ORGS

- Audio Engineering Society
- Association for Computing Machinery
- Institute of Electrical & Electronic Engineers (IEEE)
- National Society of Professional Engineers

SAMPLE EMPLOYERS

- ABB Group
- Alcoa
- Aliant Energy
- Apple
- Boeing
- Eaton Corporation
- Emerson Electric
- Federal Bureau of Investigation
- Flextronics
- Fox News Channel
- General Electronic (GE)
- Goddard Space Flight Center
- IBM
- Institute of Electrical & Electronic Engineers
- IRS Information Technology
- Jacobs
- Leidos
- Mathworks
- NASA
- National Security Agency (NSA)
- Naval Research Laboratory
- Northrop Grumman
- Pacific Gas & Electric Company
- Panasonic Avionics Corporation
- Randstad Engineering
- Rockwell Collins
- RS&H
- Schneider Electric
- Shell Oil Company
- Sinclair Broadcast Group
- Teledyne Technologies
- TMEIC
- Trinity Industries
- US Department of Defense
- US Department of Treasury
- VariQ
- Verizon

GW Center for Career Services

If you're interested in this field of study, your industry coach is likely to be the STEM industry coach. Set up an appointment on Handshake.