

# BACHELORS ELECTRICAL ENGINEERING

## TOP INDUSTRIES

1. Technology Hardware & Equipment
2. Automobiles & Parts
3. Aerospace & Defense
4. Civil & Construction
5. Software & Computer Services

## SAMPLE JOB TITLES

- Battery Engineer
- Compliance Engineer
- Electrical Engineer
- Embedded Software Engineer
- Field Applications Engineer
- Hardware Engineer
- Manufacturing Engineer
- Patent Engineer
- Performance Engineer
- Product Test and Validation Engineer
- Software Engineer
- Systems Engineer

## TOP HIRING COMPANIES



**SHURE**

**SPACEX**

**M**



**TEXAS INSTRUMENTS**

## SAMPLE HIRING COMPANIES

- Akuna Capital
- Analog Devices
- Aurora Flight Sciences
- Bechtel
- Boeing
- Bosch
- Burns & McDonnell
- Capstone Investment
- Collins Aerospace
- Consumers Energy
- Daimler Truck
- Epirus
- Ford Motor Company
- GE Aviation
- General Atomics
- General Dynamics
- Gentex Corporation
- Gerdau
- H3D
- Halla Mechatronics
- Harman International
- Honeywell
- Impulse Space
- Intel
- Intertek
- INVENSITY
- JLG Industries
- JPMorgan Chase
- Keithley
- Korea Innovation Center
- Molex
- NASA
- Nexteer
- North American Lighting
- Northrop Grumman
- Opal-RT Technologies
- Persistent Systems
- POWER Engineers
- QE Solar
- Quantum Opus
- Quarles & Brady
- Raytheon - RTX
- Saudi Aramco
- Sealed Air
- Spartan Radar
- Stryker
- Subaru
- Tesla
- TRC Companies
- U.S. Army DEVCOM
- U.S. Dept. of Defense
- V2X
- Vayu
- Williams International

## FULL TIME STARTING ANNUAL SALARY

Average: \$84,741

**Min**  
\$69,400

**Median**  
\$83,000

**Max**  
\$115,000

## INTERN HOURLY SALARY

Average: \$27.88

**Min**  
\$15

**Median**  
\$27

**Max**  
\$65

Data above are from Academic Year 2023.  
Visit [career.engin.umich.edu/career/salary-info](https://career.engin.umich.edu/career/salary-info) for more comprehensive data.

# BACHELORS ELECTRICAL ENGINEERING

## SAMPLE ELEVATOR PITCH

Hi, my name is [NAME]. I am a junior studying Electrical Engineering. I'm interested in your summer internship program.

In my EECS 200 class, I worked together with a team of engineering students to design, build, and test a 2-wheeled robot platform throughout the semester. I applied electrical engineering concepts in circuits, computing, control, sensors, optics, power, signal processing, and wireless communications to achieve competition objectives within defined engineering constraints.

I noticed that the internship posting mentioned working with antenna designers and mechanical engineers on the system. I have worked on complex systems with mechanical engineers before and I enjoyed it. Can you tell me more about the position?

## SAMPLE IMPACT STATEMENT

**Before** – Designed circuit components

**After** – Designed and tested circuit components for higher electrical efficiency using a PCB simulator to reduce assembly time

## KEY COURSES

**EECS 200** - Design-oriented introduction to electrical engineering centered around a societally-relevant design challenge for a 2-wheeled robot platform

**EECS 300** - Design-oriented course allowing for the exploration of more advanced topics as part of a design project with real world relevance

**Major Design Experience (MDE) classes such as:**

**EECS 427** - Learn how to design and lay out an integrated circuit

**EECS 430** - Learn how to develop and implement practical wireless systems

**EECS 452** - Learn how to design systems that monitor and control physical processes in real time

## KEY SKILLS

**MATLAB** – Coding language

**C++** – Coding language

**Altium** – Printed Circuit Board (PCB) design and simulator software

**Soldering, Multimeter, Oscilloscope** – General electrical skills used in circuit building and analysis

## SAMPLE EXTRACURRICULARS

**Institute for Electrical & Electronics Engineers (IEEE)**

**Eta Kappa Nu (HKN)** - Honor Society

**Michigan Embedded Systems Hub**

**Women in Electrical and Computer Engineering (WECE)**

**Design Teams** - MAAV, Baja Racing, MRover, Solar Car