

# BACHELORS ELECTRICAL ENGINEERING

## TOP INDUSTRIES

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

## SAMPLE JOB TITLES

- Applications Engineer
- Controls Engineer
- Electrical Engineer
- Embedded Software Engineer
- Hardware Engineer
- Manufacturing Engr.
- Product Engineer
- RF Engineer
- Signal Processing Engineer
- SoC Design Engineer
- Systems Engineer
- Test Engineer

## TOP HIRING COMPANIES

**NORTHROP  
GRUMMAN**

intel



TEXAS  
INSTRUMENTS

## SAMPLE HIRING COMPANIES

- AECOM
- Allen Institute
- Amazon
- Ametek
- Astranis
- Black & Veatch
- BlackEdge Capital
- Boeing
- Bosch
- BW Papersystems
- Centauri
- CGI
- CNH Industrial
- Collins Aerospace
- Consumers Energy
- DTE Energy
- EMAG Technologies
- Fluor
- FORVIA
- Gentex
- H3D
- Infineon
- Inovision
- Jane Street Capital
- Johns Hopkins APL
- Kennedy Technologies
- Lear
- Lynk Global
- Marvell
- MathWorks
- Medline Industries
- MIM Software
- Molex
- Motor City Electric
- NASA Glenn Research
- Nexteer
- Nuro
- Phase 1 Engineering
- Power Integrations
- Promaxo
- Promess
- Qualcomm
- Raytheon
- Rivian Automotive
- Skydwell Aero
- Southwest Research Inst.
- Spartan Radar
- SPINDEL
- Stellantis
- Stryker
- Surmotech
- Tesla
- Vitesco Technologies
- Vivacqua Crane

## FULL TIME ANNUAL SALARY

Average: \$86,748

**Min**  
\$60,000

**Median**  
\$81,875

**Max**  
\$150,000

## INTERN MONTHLY SALARY

Average: \$4,778

**Min**  
\$2,773

**Median**  
\$4,333

**Max**  
\$11,917

Data above are from 2021-2022.  
Visit [career.engin.umich.edu/career/salary-info](https://career.engin.umich.edu/career/salary-info) for more comprehensive data.



MICHIGAN ENGINEERING  
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# 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

