BACHELORS COMPUTER ENGINEERING

TOP INDUSTRIES

1. Software & Computer Services
2. Technology Hardware & Equipment
3. Automobiles & Parts
4. Financials
5. Healthcare

SAMPLE JOB TITLES

- Application Analyst
- Device Engineer
- Embedded Systems Engineer
- Firmware Engineer
- Integrations Engineer
- Machine Learning Engineer
- Process Engineer
- Semiconductor Test Engineer
- Silicon Design Engineer
- SoC Engineer
- Software Developer
- Verification Engineer

TOP HIRING COMPANIES

Microsoft, amazon, AMD, stryker, Ford, gm, Google

SAMPLE HIRING COMPANIES

- Alarm.com
- Analog Devices
- Arm
- Atlassian
- Blankly Finance
- Bosch
- Censys
- Citi
- DENSO
- Discovery
- Disney Streaming
- DraftKings
- Eli Lilly
- Endectra
- Frontida Records
- Gentex Corporation
- Goldman Sachs
- H3D
- Harman International
- Hermeus
- IAV Automotive
- Intel
- ITC Holdings
- Johns Hopkins APL
- JPMorgan Chase
- KBR
- KLA
- Kunz, Leigh and Assoc.
- Lippert
- Manhattan Associates
- Marathon Digital
- MathWorks
- May Mobility
- Meta
- Mide Technology
- Nuro
- NVIDIA
- PassiveBolt
- Protiviti
- Quantum Ventura
- SambaNova Systems
- Schlumberger
- SiriusXM
- Splunk
- SteelSeries

FULL TIME ANNUAL SALARY

Average: $99,422

Min	Median	Max
$75,000	$96,000	$146,000

INTERN MONTHLY SALARY

Average: $5,840

Min	Median	Max
$1,907	$5,720	$9,880

Data above are from 2021-2022.
Visit career.engin.umich.edu/career/salary-info for more comprehensive data.

MICHIGAN ENGINEERING
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UNIVERSITY OF MICHIGAN

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SAMPLE ELEVATOR PITCH

Hi, my name is [NAME]. I am a junior studying Computer Engineering. I am interested in your systems engineer intern position.

I recently designed an embedded control system for the Michigan Mars Rover Team, MRover. I designed the PCB, interfaced with several sensors and actuators, and wrote the embedded software. I worked with the mechanical sub-teams to make sure the whole system worked.

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

SAMPLE IMPACT STATEMENT

Before – Designed spacecraft avionics architecture using Ethernet backbone.
After – Implemented network topology and traffic shaping scheme for a satellite that fully mitigated the communication risk and provided single fault tolerance with no reduction in capability.

KEY COURSES

EECS 270 - Introduction to Logic Design; discusses the fundamentals of computer architecture such as logic gates and sequential circuits. Includes a CAD-based lab implemented on an FPGA.
EECS 427 - MDE class: Design and lay out an integrated circuit.
EECS 452 - MDE class: Design digital hardware-software systems that monitor and control mechanical and other physical processes in real time.
EECS 467 - MDE class: Design a physical robot that moves through physical environments, recognizes objects and activities, and draws conclusions about its surroundings.
EECS 473 - MDE class: Design an embedded system that interacts with the physical world, including its printed circuit board and software.

KEY SKILLS

Python/C++/Java/Python/Arm Assembly/Verilog – Proficiency in several languages and knowledge of data structures and algorithms.
Git/Github – Version control platform to test and run code.
Altium or Eagle – Printed Circuit Board (PCB) design and simulator software.
Soldering, Logic Analyzer, Oscilloscope – General electrical skills used in circuit building and analysis.

SAMPLE EXTRACURRICULARS

Inst. for Electrical & Electronics Engineers (IEEE) **Eta Kappa Nu - Honor Society** **Michigan Hackers**
Michigan Embedded Systems Hub **Women in Electrical & Computer Engineering (WECE)**
Design Teams - Project Music, MAAV, Baja Racing, Electric Racing, MRover, Solar Car, Hyperloop, STARX