BACHELORS COMPUTER ENGINEERING

TOP INDUSTRIES

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

SAMPLE JOB TITLES

- Application Analyst
- Computer Engineer
- Cyber Security Research Engineer
- Design Verification Engineer
- Embedded Software Engineer
- Firmware Engineer
- Hardware Engineer
- Robotics Engineer
- SOC Design Engineer
- Software Developer
- Systems Administrator
- Technology Analyst

TOP HIRING COMPANIES

NASA JPL, NVIDIA, Ford, Texas Instruments, gm, Capital One, Qualcomm, Apple

SAMPLE HIRING COMPANIES

- Accenture
- AMD
- Advantage CS
- Allen Institute for AI
- Allstate
- Amazon
- Analog Devices
- Aptiv
- Arm
- Array of Engineers
- Aurora Flight Sciences
- Aurora Innovation
- Bank of America
- Bank of NY Mellon
- Blue Origin
- blueflite
- BuyMySpot
- Censys
- Cisco Meraki
- Deloitte
- dSPACE
- Duo Security
- Dynatrace
- Eos Energy
- Expedia
- Garmin
- Goldman Sachs
- Harman
- Intel
- ITC Holdings
- Johns Hopkins APL
- KLA
- Marathon Digital
- MathWorks
- May Mobility
- Microsoft
- Otis Elevator
- Plastic Omnium
- Pratt Miller
- Retail Backbone
- Rivos
- Siemens
- Southwest Research Inst.
- SPOT Imaging
- STMicroelectronics
- Stryker
- Subaru
- Tesla
- Toyota
- Tulip Interfaces
- Vayu
- Vector
- Walmart Global Tech
- Zurn

FULL TIME STARTING ANNUAL SALARY

Average: $96,526

Min	Median	Max
$60,000	$92,000	$150,000

INTERN HOURLY SALARY

Average: $34.38

Min	Median	Max
$9.89	$30	$84

Data above are from Academic Year 2023.
Visit career.engin.umich.edu/career/salary-info for more comprehensive data.

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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 - VLSI Design I; Design and lay out an integrated circuit.
EECS 452 - Digital Signal Processing Design Lab; Design digital hardware-software systems that monitor and control mechanical and other physical processes in real time.
EECS 467 - Autonomous Robots; Design a physical robot that moves through physical environments, recognizes objects and activities, and draws conclusions about its surroundings.
EECS 473 - Advanced Embedded Systems; 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