Vasishta Malisetty

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EDUCATION

Northeastern University, Boston, MA — May 2026
Bachelor of Science in Electrical and Computer Engineering — **GPA:** 3.85
Relevant Coursework: Fundamentals of Electronics, Circuits & Signals: Biomedical Applications, Embedded Design: Enabling Engineering, Digital Design & Computer Organization, Fundamentals of Networks, Discrete Structures
Activities: Generate Product Development Studio, Tau Beta Pi Engineering Honors Society, Intramural Soccer

SKILLS

Hardware: Circuit Design, PCBA Design, Oscilloscope, Multimeter, Arduino, Soldering, Microcontrollers, FPGAs
Programming Languages: Python, C++, MATLAB, SystemVerilog, Assembly Language
Tools: KiCAD, EasyEDA, Linux, Git, Solidworks, AutoCAD, LTspice

ENGINEERING EXPERIENCE

Philips — Jan 2024 - Present
Hardware Reliability Engineer Co-op | Andover, MA

- Perform accelerated stress experiments using H.A.L.T. and H.A.S.S systems on various Philips healthcare products, increasing product service life by 20% and reducing pre-market approval times

Rite Aid — June - Aug 2023
Data Security Intern | Hopkinton, MA

- Conducted 1119 Atomic Red Team tests using the Invoke-Atomic framework, generating threat intelligence reports on telemetry received from CrowdStrike Falcon and improving Rite Aid's overall security posture
- Delivered 532 unidentified IoCs to the Anomali ThreatStream Database by parsing threat intelligence reports on multiple Ransomware groups, successfully preventing a security breach

PROJECT WORK

C-STAR: Autonomous Concrete Scanner — Jan 2024 - Present
Generate Product Development Studio | Boston, MA

- Design hardware for C-STAR, an autonomous robot seeking to aid civil engineers in creating repair assessments for parking garages by utilizing LiDAR to scan concrete

SEBIK: Automated Table Top Injection Molder — Sept - Dec 2023
Generate Product Development Studio | Boston, MA

- Developed an automated table top injection molder seeking to provide a solution to medical supply shortages by rapidly producing common medical products on demand
- Designed circuitry and PCB for the injection ram subsystem, allowing 10.45 grams of molten polypropylene to be injected every 4 minutes via pneumatic cylinders

HeatWave: Contactless Stovetop — Sept - Dec 2023
Forge Product Lab | Boston, MA

- Developed a contactless stovetop that allows the user to control the heat applied using hand gestures
- Integrated motion detection capabilities using C++, Arduino, and ultrasonic sensors, allowing users to rapidly switch between five distinct heat settings.

Chess Engine — May - June 2023
Personal | Hopkinton, MA

- Created a Python-based Chess engine that allows the user to challenge the engine to a game
- Utilized user inputs for toggling between PvE and PvP modes and switching between four distinct board color schemes

INTERESTS

Pittsburgh Steelers, Chelsea FC, Chess, Brownies & Cookies, Video Games