

# 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:** Linux, Git, KiCAD, EasyEDA, 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 Philips healthcare products, increasing product service life by 20%, reducing pre-market approval times, and lowering development costs

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 Sounding Robot

Jan 2024 - Present

Generate Product Development Studio | Boston, MA

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

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