

# Srivibhu Yerneni

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## EDUCATION

**Northeastern University**, Boston, MA

**May 2028**

*Candidate for Bachelor of Science in Electrical and Computer Engineering*

**GPA: 3.50**

**Relevant Coursework:** Quantum Engineering, Circuits and Signals, Electronics, Digital Design, Embedded Design

**Activities:** SEDS, Resident Student Association, Ultimate Frisbee

## SKILLS

**Software:** Java, Python, C++, Solidworks, Onshape, Autocad, KiCad, Git, Docker

**Hardware:** Soldering, Oscilloscope, PCB Design, 3D Printing, Arduino

## PROFESSIONAL EXPERIENCE

**Bendable Electronics and Sustainable Technologies Lab, Northeastern University**

**Boston, Massachusetts**

*Undergraduate Research Assistant*

**Dec 2025 - Present**

- Develop machine learning models to optimize nanofabrication processes for flexible electronic devices, reducing fabrication defects and improving device performance metrics across multiple sensor prototypes.
- Design experiments on flexible electronic systems, analyzing material properties and fabrication parameters to inform data-driven process improvements and validate machine learning predictions against experimental results.

**Northeastern University**

**Boston, Massachusetts**

*Teaching Assistant - EECE 2160 Embedded Design*

**Dec 2025 - Present**

- Support 100+ students in FPGA-based system design and embedded programming through weekly lab sessions, office hours, and one-on-one technical troubleshooting to reinforce core concepts in hardware-software integration.
- Grade labs, homework assignments, and exams while ensuring consistent evaluation standards, providing detailed technical feedback, and hosting regular review sessions to clarify embedded systems principles.

**AI Edge Institute at Ohio State University**

**Columbus, Ohio**

*Student Researcher*

**May 2025 - Aug 2025**

- Developed supervised learning models that improved classification accuracy by 22% on datasets exceeding 100k samples through systematic feature engineering and hyperparameter optimization techniques.
- Preprocessed and analyzed large-scale datasets, documented methodology and results in a 10-page technical research paper, and presented findings at program capstone to faculty and industry partners.

## PROJECTS

**Beacon Board**

**Boston, Massachusetts**

*Electrical Engineer at SEDS*

**Sep 2025 - Oct 2025**

- Designed a battery-powered STM32G0B1 beacon controller PCB in KiCad, integrating USB power, Li-ion charging circuitry, clean 3.3 V regulation, and robust reset/mode control for multiple external beacon modules.
- Implemented system-level power management and signal routing, clock circuitry, SWD debugging, UART/SPI interfaces, and GPIO-controlled beacon reset/mode lines, with full schematic-to-PCB workflow.

**ROS2 Architecture**

**Boston, Massachusetts**

*Software Engineer at SEDS*

**Jan 2025 - Jul 2025**

- Designed a modular ROS2 architecture for Northeastern's SEDS Lunabotics rover, implementing sensing, navigation, and control nodes with standardized interfaces allowing for a fully autonomous rover.
- Integrated perception, path planning, and actuator control into a unified system that contributed to the rover placing 3rd nationally in the NASA Lunabotics style competition at the University of Iowa.

## LEADERSHIP EXPERIENCE

**Resident Student Association**

**Boston, Massachusetts**

*Assistant Vice President of Operations*

**Sep 2025 - Present**

- Manage funding and budgeting for all Hall Councils and ResLife programming at Northeastern, overseeing allocation, financial tracking, and operational support for residential communities across the Boston campus.
- Plan and coordinate large-scale events by securing contracts and partnerships with Boston organizations to enhance student engagement and the campus community experience for residential students.

**Trade Safe**

**Dallas, Texas**

*Co-founder/Developer*

**Jul 2025 - August 2025**

- Designed and implemented a mobile application to assist investors, integrating AI-driven stock recommendation algorithms, while ensuring an accessible interface usable for users with varying financial literacy.
- Developed and trained a custom machine learning model that outperformed baseline AI models by 18% in prediction accuracy, validated through backtesting on 50,000 + historical stock records dating back over a decade.