Srivibhu Yerneni

Boston, MA | (267)-595-0362 | yerneni.sr@northeastern.edu | www.srivibhuyerneni.com

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

SKILLS

Software: Java, Python, C++, Solidworks, Onshape, Matlab, Autocad, Swift, Arduino, Linux, VMWare, LT Spice
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*

- Conduct research on flexible and bendable electronic technologies, with a focus on integrating machine learning techniques into nanofabrication workflows to improve device performance and process optimization.
- Assist in experimental design, data collection, and analysis for flexible electronic systems, collaborating with graduate researchers to bridge materials, fabrication, and data-driven modeling approaches.

Northeastern University ***Boston, Massachusetts***
Teaching Assistant - EECE 2160 Embedded Design *Dec 2025 - Present*

- Support 100+ students in FPGA- and microcontroller-based system design as a teaching assistant, embedded programming, and hardware–software integration, while contributing about 10 hours per week.
- Grade labs, homework assignments, and exams, ensuring consistent evaluation and providing technical feedback to reinforce core embedded systems concepts, and hosted office hours and lab sessions on a weekly basis.

AI Edge Institute at Ohio State University ***Columbus, Ohio***
Student Researcher *May 2025 - Aug 2025*

- Developed and evaluated supervised machine learning models on large-scale real-world datasets (>100k samples), improving baseline accuracy by 22% through feature engineering, model selection, and hyperparameter tuning.
- Executed an end-to-end machine learning pipeline including data preprocessing, training, validation, and error analysis; communicated results in a 10-page technical research paper and final capstone presentation.

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.