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, and Lunabotics

SKILLS

Software: KiCad, Java, Python, C++, SolidWorks, Onshape, Matlab, Autocad, Swift, Arduino, Linux
Hardware: Soldering, Oscilloscope, Function Generator, PCB Design, 3D Printing, Raspberry Pi, Arduino

PROFESSIONAL EXPERIENCE

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 using Quartus Prime, Scopy, and MobaXTerm.
- 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).
- Improved baseline accuracy by 22% through feature engineering, model selection, and hyperparameter tuning.
- Communicated results in a 10-page technical research paper and final capstone presentation.

Kumon ***Glen Mills, Pennsylvania***
Tutor/Employee Trainer *Feb 2022 - Mar 2023*
- Delivered personalized math and reading instruction to 100+ K–12 students while mentoring and training 3–5 new employees per month, standardizing instructional methods, and improving overall learning outcomes.
- Supported center-wide operations, including scheduling, inventory management, and staff coordination, and assumed leadership responsibilities in the manager's absence to ensure consistent workflow.

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.