Augustine Nguyen

Boston, MA | 857-271-6700 | nguyen.au@northeastern.edu | LinkedIn

Education

Northeastern University — Boston, MA
B.S. in Electrical Engineering (3.8 GPA) — *Expected May 2026*
Minor in Mechanical Engineering
Relevant Courses: Circuits and Signals, Electronics, Embedded Design, Electronic Design, Computing Fundamentals
Activities: Quantum Hybrid Magnonics Lab, IEEE, Vietnamese Student Association, Sigma Beta Rho Fraternity

Boston Latin School — Boston, MA
High School Diploma (4.02 GPA) — *May 2022*

Technical Skills

Hardware: Soldering, Arduino, Oscilloscopes, Digital Multimeters, Sensors, Spectrum Analyzers
Computer Languages: Python, C++, MATLAB, JavaScript, HTML/CSS, LaTeX
Software: SKM Power Tools, LabVIEW, LTSpice, Solidworks, AutoCAD, Microsoft Excel, Bluebeam
Codes and Standards Knowledge: NFPA 70 (NEC) and 70E, IEEE 1584 (2018), IEEE 141
Languages: English (Native), Vietnamese (Conversational)

Experience

Electrical Engineering Intern — Holbrook, MA
Infra-Red Building and Power Services — *July–Dec. 2024*

- Conducted short circuit analysis and arc flash studies on industrial power systems for large commercial clients
- Utilized SKM Power Tools to model power system behavior and optimize circuit breaker coordination
- Assisted in documenting existing site conditions to verify that equipment was compliant with industry standards
- Authored over 10 comprehensive technical reports on client power distribution systems

Undergraduate Research Assistant — Northeastern University
Quantum Hybrid Magnonics Lab — *Feb. 2024 – Present*

- Utilized LabVIEW to communicate with a Scalar Network Analyzer and Tracking Generator to perform and plot scalar network analysis
- Developed LabVIEW framework for automatic turntable used to conduct measurements
- Currently learning KiCAD to design a high-frequency YIG oscillator

Engineering Projects

ECG Signal Amplifier | *Op Amps, Oscilloscopes, MATLAB, Electrical Components* — *Nov.– Dec. 2023*

- Constructed an ECG signal amplifier using an AD627 Instrumentation Amplifier
- Designed and implemented active high and low pass filters to remove DC voltage and high frequency noise
- Leveraged A/D conversion to quantize and display signals in MATLAB
- Applied digital filtering to ECG signals using MATLAB

Sumo Robot Competition | *Arduino, AutoCAD, Servo Motors, Sensors, Wiring* — *Oct.– Dec. 2022*

- Collaborated with a team of 4 to design autonomous robots to compete in sumo-style competitions
- Programmed a path finding algorithm taking inputs from LDR Photoresistor and Ultrasonic Sensors
- Achieved 2nd Place in course-wide competition

Leadership

Vietnamese Student Association
Internal and External Representative — *Sept. 2022 – Present*

- Act as primary liaison for organizational outreach within the university community
- Serve as organization representative in Northeastern University's Pan-Asian American Council
- Organize meetings and events with 100+ guests in attendance by coordinating performers, food, and setup