

Stanley Nguyen

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EDUCATION

Boston University College of Engineering, Boston, MA

May 2023

Bachelor of Electrical Engineering

Relevant Courses: Power systems and electronics, Data Algorithms, Electromagnetics, Digital and Analog Design, Communication Systems

WORK EXPERIENCE

Raytheon, Tewksbury MA

July 2023 – Present

Systems Engineer I

- Mitigated financial risks ranging from \$1M to \$10M and potential loss of life by integrating safety measures into the design of new and upgraded tactical equipment, while establishing comprehensive Level of Rigor software testing requirements
- Reviewed and evaluated electrical and mechanical drawings and schematics, delivering assessments of potential and dormant failures to ensure compliance with system safety standards, including MIL-STD/HDBK-882E, MIL-HDBK-454B, and NFPA 70E
- Contributed to mission-critical safety design evaluations for deployed systems across multiple countries, focusing on the maintenance of Patriot electrical and mechanical hardware as well as software/firmware updates
- Provided technical solutions to Mechanical and Electrical design teams ensuring that drafted work instructions and technical manuals for support and field engineers were safe and practical for implementation

Amazon, Boston MA

August 2021 – Present

CXO Locker+ Associate

- Upheld inventory management processes by promptly sorting packages and ensuring their availability for pick-up, aligning with Amazon's SLA guidelines to maintain customer satisfaction

Boston University, Boston MA

September 2022 – May 2023

Circuits Lab Assistant

- Maintained organized lab operations by repairing and ensuring the proper functioning of function generators, oscilloscopes, and other laboratory equipment
- Provided support to students and faculty in setting up and conducting laboratory experiments, including offering technical assistance and troubleshooting for experimental setups and lab equipment
- Managed the operation and troubleshooting of the LPKF PCB machine, assisting students with drilling and contouring received PCB designs

National Grid, Waltham MA

May 2022 – August 2022

Transmission Asset Engineering Intern

- Reviewed transmission asset condition reports to develop needs cases for asset capitalization, maintenance, and rebuild projects using GIS technology
- Applied strategic asset management practices to enhance transmission system reliability, collaborating with cross-functional teams and engaging with company stakeholders

PROJECTS

Arduino Autonomous Car

- Developed a basic Arduino-powered car featuring power modulation and infrared (IR) sensors, enabling it to distinguish between black and white surfaces to avoid falling off edges

LM 386 Audio Amplifier

- Conducted research and developed a basic alarm system utilizing low-voltage buzzers, operational amplifiers (Op-Amps), and motion sensors, powered by an Arduino Uno

SKILLS

Software: C/C++, Matlab, Python, LTspice, Verilog, Solidworks, Onshape, Creo Parametric, DOORS, Jira, MS Office

Manufacturing: CAD/CAM, Soldering, Lean Manufacturing Principles, LPKF (PCB Milling and Structuring)