

# 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 – Feb 2025

*Systems Safety Engineer I*

- Mitigated financial risks ranging from \$1M to \$10M and potential loss of life by integrating safe design techniques into new and upgraded tactical equipment by developing comprehensive Level of Rigor software testing requirements and hardware risk analysis
- 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

**Hardware:** DMMs, Scopes, Micro Controllers CAD, Soldering, Lean Manufacturing, PCB Milling and Structuring