

# 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 Safety Engineer I*

- Reduced financial losses and mitigated risks to human safety from system failures by incorporating safety measures into the design of new and updated tactical equipment, along with defining 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
- Worked closely with Mechanical and Electrical design teams to ensure 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

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