Stanley Nguyen

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EDUCATION

Boston University College of Engineering, Boston, MA   Expected May 2023
Bachelor of Electrical Engineering, 3.05
Relevant Courses: Power systems and electronics, Plasma technologies. Data Algorithms, Electromagnetics, Digital and Analog Design, Communication Systems
Extra Curricular: IEEE, BUVSA, GBFB Volunteering, Tennis Club

WORK EXPERIENCE

Circuits Lab Monitor, Boston MA   September 2022 – Present
Lab Assistant
- Ensured well-ordered lab operations by repairing and verifying function generators, oscilloscopes, and various lab equipment are in satisfactory condition
- Facilitated and assisted ECE students in different electronics lab components and PCB milling/structuring

National Grid, Waltham MA   May 2022 – August 2022
Transmission Asset Management Intern
- Analyzed transmission asset condition reports providing needs cases for transmission asset capitalization, maintenance, and rebuilds via GIS
- Assisted in the development of smart, reliable, and efficient future transmission systems for NE electric customers
- Implemented strategic asset management practices to improve transmission system reliability alongside cross-functional teams as well as company stakeholders

Phan Electric, Boston MA   June 2020 – September 2020
Apprentice Electrician
- Maintained electrical equipment to provide build services for residential and commercial buildings
- Initiated and executed compliance with electrical code standards while servicing residential and commercial contractors

Learn and Earn, Northeastern University   June 2018 – August 2018
Student Intern
- Learned and applied fundamental engineering design processes to create and assemble a functional model for potential clients
- Developed processes and documented weekly presentations showcasing progress in energy savings system design while investigating energy usage cost data in high school building

PROJECTS

Machine Learning Airlines Data Project
- Utilized Matlab ML toolbox to analyze, organize, classify, and cluster models for 10,000 airline data entry points
- Compiled and scrubbed U.S airline data to determine most consistent and reliable airline carrier

Whack-a-Mole
- Implemented the classic "Whack-a-mole" game via Verilog onto a Nexys-4 FPGA development board with a configurable seven-segment display control

Truss Design
- Conducted research and development for a truss design with the highest strength-to-cost ratio under constraints

LM 386 Audio Amplifier (Personal Project)
- Developed and tested a simple alarm system with low-voltage buzzers, LED, and motion detector using Arduino hardware and C subset programming language

NRFL2401 Radio Communications (Personal Project)
- Utilized Arduino SPI and RF24 libraries to transmit and receive information over a one-kilometer range with physical button controls for user control

SKILLS

Software: C/C++, Python, Matlab, Linux, LTspice, Altium, Verilog, Solidworks, HTML/CSS, GIS, MS Teams
Manufacturing: CAD/CAM, Soldering, Lean Manufacturing Principles, LPKF (PCB Milling and Structuring)