Anh Dao

linkedin.com/in/duyanh2705 | duyanh2705@gmail.com | (417) 380 8657

Education

University of Washington | Tacoma, WA — GPA 3.93/4.0 June 2020

Bachelor of Science in Electrical Engineering — Magna Cum Laude

- Undergraduate Merit Scholarship of University of Washington Tacoma, Dean's List Scholarship.
- **Software:** Golang, PostgreSQL, Java, C, Python, MATLAB, SOLIDWORKS, AutoCAD, PSCAD, Power World Simulator, Cadence, ARM, ModelSim, Verilog, Arduino, Inkscape, KIEL, Quartus.
- **Hardware:** Arduino Uno, Mega 2560 9 (PID controller), PIC, Tiva Series Launchpad (microprocessor RTC), FPGA, Power Generators, oscilloscopes, multimeters, lab components and equipment.
- **Coursework**: Logic Design, Linear Systems, Control Systems, Root Locus, Power Systems, Transmission Lines, Substation, Load Flow, Power Electronics, Electromagnetism, Communication Theory, IC Design, I2C, Microprocessor, all related Math and science classes required for BA in EE.

Ivy Tech Community College | South Bend, IN — GPA 3.93/4.0 May 2017

Associate Degree in Pre-Engineer — Magna Cum Laude, Dean's list, Phi Theta Kappa

Work Experience

Pacific Northwest National Laboratory | Richland, WA Jun — Sep 2019

Electrical Engineering Intern

- Worked in Hydrology Group for Department of Energy under operation of Battelle.
- Developed an Electromyography (EMG) firmware and implement the Electrocardiogram (ECG) algorithm base on Pan-Tompkins method to detect QRS complexes using C language.
- Used test equipment like oscilloscope, pulse function arbitrary generator, power generator to analyze different characteristics of the components, hardware design and simulate the test environment.
- Applied MPLAB® XC, Peripheral Interface Controller (PIC) to measure the motion, muscle movement, and heart rate of different fish.
- Contributed in programming Arduinos to acquire GPS locations, analyze the data, coding and troubleshooting on the autonomous spooling system of a Remotely Operated Vehicle project.

University of Washington | Tacoma, WA

Teaching Assistant Sep 2019 — Mar 2020

- Facilitated a seminar for roughly 40 diverse students in a junior-level engineering classes in correspondence with full-time faculty. Helped students to understand the working of some electronic equipment.

Quantitative Tutor Mar 2018 — June 2020

- Meet with students in an individual, shared and group tutoring format to enhance, support and clarify concepts in Engineering Physics, C, Java, MATLAB, SOLIDWORKS, Verilog.

Research and Project Experience

Dawgs of War - University Rover Challenge

- Collaborating in a multidisciplinary team to research and develop a prototype of a University Mar Rover for annual international competition.
- Built a battery pack using 18650 Li-ion batteries with a customized battery power management.

Fire Force

- Collaborating in a team of four to research and develop a system using multiple TurtleBot3 robots to search and rescue or explore new environment where GPS-tracking is not reachable. Experienced with Linux and ROS.

Robotic Rubik's Cube Cracker

- Led a multidisciplinary team to research the design and implementation of a robot to solved a rubik cube. The Cube Cracker solved a 3x3 Rubik cube under two minutes.

Institute of Electrical and Electronics Engineers Club and Membership (IEEE) – Vice President