Anh Dao

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

Education

University of Washington | Tacoma, WA *June 2020*

Bachelor of Science in Electrical Engineering — GPA 3.93/4.0 — Magna Cum Laude

- Undergraduate Merit Scholarship of University of Washington Tacoma, Dean's List Scholarship.
- **Coursework**: Logic Design, Linear Systems, Control Systems, Root Locus, Power Systems, Load Flow, Power Electronics, Electromagnetism, Communication Theory, IC Design, I2C, Microprocessor, all related Math and science classes required for BS in EE.
- **Software:** Golang, PostgreSQL, MPLAB® XC Compiler, Java, C, Python, MATLAB, SOLIDWORKS, AutoCAD, PSCAD, Power World Simulator, Cadence, ARM, ModelSim, Verilog, Arduino, Inkscape, KIEL, Quartus.
- **Hardware:** Arduino (PID controller), PIC, Tiva Series Launchpad (microprocessor RTC), FPGA, Power Generators, oscilloscopes, test bench equipment, DC-DC inverters, Buck-Boost converters
- Proficient in Golang.

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 implemented the Electrocardiogram (ECG) algorithm base on Pan-Tompkins method to detect QRS complexes using C language.
- Applied MPLAB® XC, Peripheral Interface Controller (PIC) to measure the motion, muscle movement, and heart rate of different fish.
- Analyzed different characteristics of the components, hardware design and simulate the test environment by using oscilloscope, pulse function arbitrary generator.

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.

Quantitative Tutor *Mar 2018 — June 2020*

- Mentored 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

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

Fire Force

- Cooperated 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, ROS, Python and simulation in Gazebo

Robotic Rubik's Cube Cracker

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

Vice President of Institute of Electrical and Electronics Engineers (IEEE) Student Club.