Daniel Slovich

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Education

George Mason University — Fairfax, VA
Bachelor of Science in Electrical Engineering — *August 2018 – May 2021*

Northern Virginia Community College — Annandale, VA
Associate of Science in Electrical Engineering — *May 2017 – August 2018*

Technical Skills

Programming Languages
Python, C/C++, Java, VHDL, Assembly, ROS/RViz/MoveIt, XML, Bash, Lua, LaTeX

Software Programs
Linux, MATLAB, Simulink, PSpice, Multisim, Vivado, EAGLE, Fusion 360, Copellia Sim, Gazebo Sim

Hardware Design Competencies
Circuit/PCB/ASIC, FPGA, Emebbed Systems, Control Systems, Robotics, Signal Processing, 3D-Printing

Experience

Instrument Repair and Technician — November 2015 – December 2016
Alvas Music — *San Pedro, California*

- Developed and instated standards for customer records, instrument check-in and check-out, logging, and pricing
- Performed repair, set-up, and modifications of customer instruments to various customer-defined specifications
- Generated new repair income stream, and increased customer base

Information Technology Operations Analyst — February 2015 – June 2015
Red Bull — *Santa Monica, California*

- Imaged corporate employee devices and provided on site support in person, over the phone, and via email or ticket
- Ensured proper training for users, on-boarding of new employees, handling incidents, service requests and installs
- Provided deployment and support of Cisco, Xerox and Crestron A/V and teleconference hardware

Genius, Service Specialist, Visuals Specialist, Sales Specialist — February 2011 – November 2014
Apple Inc. — *Fairfax, Virginia*

- Apple Certified Mac Technician with service qualifications in Apple computers, mobile devices, OS X and iOS
- Performed triage and repair of computers, devices and networks in large volume appointment-based environment
- Facilitated and conducted company held classroom training of technicians and sales employees
- Conducted customer training workshops on Apple products and services

Projects

Subaquatic Optoelectronic Sensor — August 2020 – June 2021
Python, MATLAB, Fusion 360, EAGLE, Embedded Systems, SMT/Point-toPoint Solder, Optics

- Top-down design of a fiberoptic based water sensor measuring sample turbidity, temperature, and salinity
- Solely researched, designed, and modeled temperature sensor harnessing semi-conductor properties
- Performed device design, modeling, and simulation utilizing MATLAB and PSpice
- Designed 3D printed components for each sensor using Fusion 360
- Designed and created all circuits, schematics, and PCB laydowns in EAGLE
- Part of a six member team collaboration with periodic meetings and progress reporting
- Final desktop device created with full sensing capabilities with extensive testing, calibration, and measurement completed, recorded, and documented.

5-DOF Robotic Arm — January 2021 – June 2021
Python, Gazebo/Coppellia Sim, Embedded Systems, Kinematics, Fusion, 3D Printing

- Development and creation of a physical 5 degree of freedom robotic arm
- Forward and Inverse Kinematics fully modeled in Copellia sim
- Utilizes Dynamixel XL330 smart servos with internal position, force, and torque sensing for a closed loop design
- Final construction completed using Arduino, printed parts, and servos with functional testing performed