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Skills

Programming:

- ➤ HTML5/CSS
 - o 11 years
- > Javascript
 - o 11 years
- ➤ Java
 - o 10 years
- ➤ LabView
 - o 9 years
- **>** C, C++, C#
 - o 9 years
- ➤ Swift
 - o 6 years
- > Python
 - o 6 years
- ➤ MATLAB
 - o 5 years

Design:

- ➤ Electrical:
 - o Multisim
 - Cadence
 - Altium
 - o OrCAD
 - Eagle PCB
- ➤ Mechanical:
 - AutoCAD
 - Inventor
 - SolidWorks
- > Schematics:
 - o Flow Diagrams
 - Panel Schedules
 - Block Diagrams
 - o Logical Flow
 - Weld Instruction
 - o Blueprints

Other Skills:

- ➤ Microsoft Office
- Microsoft Power Tools
 - o BI
 - Automate
 - o VBA
- > Technical Writing
- ➤ EV Design
- ➤ Autonomous Programming
- ➤ Machine Learning
- ➤ Windows Server
- ➤ Team Player
- ➤ Quick Learner
- ➤ Brainstormer

Employment History

Self-Employed Computer Technician/Developer

08/2012 - Present

- > General Computer Repair (PC Cleanup, Virus Removal, Data Migration, Upgrades)
- ➤ Business IT (Configuration of Business Computers/Network, Device Setup, Debugging)
- ➤ Web Design (Multi-Industry Web Portfolio, >500 visits/month, >\$1,000 rev. gen/month)
- ➤ Process Improvement Simulation (>\$300,000 Annual Savings,99% winter cost reduction)
- Extensive iOS, Android, Linux, Windows, and MacOS Experience
- ➤ Built or repaired upwards of 150 computers

Engineering Intern at Daikin Applied - Phoenix

01/2022 - 08/2022

- ➤ Taking dimensions from large solid works assemblies to assist production
- > Researching tools and equipment to aid in manufacturing process
- ➤ Developing Capital Expenditure Report for manufacturing equipment
- ➤ Planning & Designing CAD models of and for training facility
- ➤ Inspecting projects and issuing "red tags" which are issues that need fixed.
- ➤ Taking weights of projects before shipping
- ➤ Participating in high-detail design reviews
- > Other roles include CAD Modeling, Power BI Dashboards, and Python Tools

Education History

<u>Arizona State University</u> Engineering (Robotics) B.S.E

Notable Coursework

- ➤ Calculus 1, 2, & 3
- ➤ Differential Equations
- Physics: Vector Mechanics/Vibrations
- Applied Linear Algebra
- ➤ Engineering Statistics
- ➤ Chemistry 1&2

Engineering Theory

- > Engineering Mechanics
- Materials and Manufacturing Process
- ➤ Electrical Fundamentals
- Design of Electrical Systems
- ➤ Analog-Digital Interface
- Computational Modeling Engineering Systems
- ➤ Transforms & Systems Modeling (PID Controls)

Project - Based Engineering

08/2018 - 05/2023

Cum. GPA: 3.32

- Professional Design Project (Capstone)
- ➤ Embedded Systems
 Design Project 1&2
- ➤ Robotics Systems 1&2
- ➤ Use-Inspired Design Project 1&2
- ➤ PLTW Engineering Pathway (Grades 9-12)

Clubs, Mentorship, & Awards

Grand Terrace High School-Robotics Club	08/2013 - 05/2018
 President 	08/2016 - 05/2018
 Colton Joint Unified School District Robotics Club 	08/2013 - 05/2018
 President 	01/2016 - 05/2018
 Team Captain 	09/2015 - 05/2018
 Robotics Summer Camp Organizer 	06/2015 - 05/2018
Robotics Team Mentor (FIRST)	08/2016 - 03/2020
CA 47th District 30 Under 30 Award Recipient	08/2018