**Education**

**University of Washington: Certification** in Full Stack Bootcamp

**Arizona State University: B.S.** In Manufacturing Engineering Technology/Mechanical Engineering Option

**University of Arizona:** Completed 2 years toward an EE degree

**Professional Engineering Experience**

**Senior Project Engineer at** Triumph Aerospace Systems, Redmond, WA—March 2019 to July 2021

* Senior level position that oversaw the development of new electromechanical systems for the Aerospace industry including flight controls, high precision utility systems, brake controls and actuation systems

**Mechanical Design Engineer at** JBT Corporation (formerly DSI) in Redmond, WA—April 2013 to November 2018

* Principal lead designer (using Autodesk Inventor) and program manager for new products (obtained US Patent)
* Responsible for research and development of innovative solutions to current customer needs/requests

**Mechanical Hardware Test Engineer at** Insight Global (vendor for Microsoft X-Box ) in Redmond, WA— 2010 to 2013

* Designed new test fixtures for testing motion dynamics/kinematics, vibration, structure, and reliability
* Designed, ran and evaluated test cases relevant to the new product specifications

**Principal Development Engineer at** General Dynamics-OTS in Redmond, WA—2008 to 2009

* Created over 7 new test plans and procedures for two new development projects with DARPA & Boeing

**Electro-Mechanical Engineer at** Cenorin in Kent, WA— 2006 to 2008

* Designed pasteurizer and dryer cabinets with sheet metal, AL extrusion, and Stainless Steel components

**Senior Mechanical Engineer** **at** ASYS Technologies in San Diego, CA— 2005 to 2006

* Designed several components including a precision positioning system with over 20 complex parts

**Owner/Project Engineer**

80s-Arcade.com - Part time E-business in San Diego, CA— 2002 to 2005

* Designed custom wood cabinets per customer specifications including power, wiring, and special features

**Mechanical Design Engineer**

Pulse Engineering in San Diego, CA— 1996 to 2001

* Designed and Patented injection molded plastic & sheet metal components for SMT and Through Hole products
* Over 3 years of training and applying Failure Mode and Effect Analysis (FMEA & PFMEA)

**Consultant Positions:**

**Technical / Product Lead** @ Pantour Bicycle Hub (9 month contract) in San Diego, CA

* Design consultant responsible for design (SolidWorks) and documentation of 6 aluminum hub devices

**Lead Engineer** @ Jif-Pak (6 month contract) in San Diego, CA

* Evaluated and reduced drafting overhead by 30% using a new efficient document system

**Lead Mechanical Engineer** @ Newton Robotics (3-month contract) in Renton, WA

* Developed autonomous robotic platform to inspect, clean and recoat Boiling Water Reactor Torus

**Project Engineer** @ Ingersoll Rand (3-month contract) in Seattle, WA

* Coordinated with IR Procurement and potential/current suppliers to achieve on time an ‘in budget’ results
* Acted as engineering 'translator' to the IR sourcing team for all supplier issues

**Obtained US Patents:**

10,060,454 9,604,230 6,325,664 6,224,425 6,176,741 6,159,050 6,116,963 5,971,805