

# Keenan A. Heller

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## EDUCATION AND HONORS

University of Washington Coding Bootcamp – Seattle, WA

December 2020

The University of Arizona – Tucson, AZ

May 2018

### **Bachelor of Science in Mechanical Engineering**

**Relevant Coursework:** Control System Design, Heat Transfer, Fuel Cell Fundamentals & Design, Renewable Energy Systems, Probability & Statistics, Technical Sales & Marketing

## EXPERIENCE

**The Boeing Company** – Seattle, WA

November 2018 – Present

### *Project Manager*

- Conceptualized and executed an idea from inception to completion, projecting a savings of over \$400,000 over the next 3 years
- Designed and prototyped idea from raw material to deliverable product
- Sourced internal and external prototype materials
- Scheduled all meetings and coordinated efforts among contributors to maximize efficiency and progress
- Created business case for presentation to upper management, forecasting future costs, cost savings and ROI
- Managed all project components utilizing Milestones Professional Gantt Charts to develop a critical path

### *Functional Test Manufacturing Engineer*

- Created *de novo* SQL database currently in use by 777 functional test team using self-taught Python software
- Created *de novo* Python application interfacing Microsoft Access, Visual Basic and JavaScript to perform previously manual data gathering and analysis, projecting an annual savings of \$114,000
- Team lead for, and liaison to, tooling organization comprising mechanics, health and safety personnel, tooling engineers and finance staff
- Test writer and coordinator for configuration control, scheduling, and live testing with mechanics, design engineers, and QA
- Completed all assigned work with 100% on time accuracy

**A1 Luxury Motors** – Seattle, WA

May 2017 – August 2017

### *Compressed Natural Gas Project Manager*

- Engineered projects leading a team of 2 additional members performing bi-fuel and dedicated compressed natural gas conversion for automobiles emphasizing model-specific thinking
- Performed basic engine maintenance to whole engine replacements focusing on 100% customer satisfaction
- Utilized JavaScript/HTML to assist development of company website
- Tracked the purchasing and filling of all compressed natural gas orders using Excel

**Powderpigs Ski School** – Seattle, WA

October 2012 – April 2014

### *Head Snowboarding Instructor*

- Managed data collection utilizing Excel evaluating students' trends and instructors' efficiencies
- Developed teaching curriculum and trained instructors to teach 5-11 year old students, emphasizing safety, tranquility under pressure, and effective time management strategies
- Provided parents with weekly progress reports for their children emphasizing incremental goal setting

- Utilized excellent customer service and communicatory skills resulting in a demand for private lessons

## **SENIOR DESIGN PROJECT**

### **UAS Emergency Parachute System**

August 2017 – April 2018

- Placed 2<sup>nd</sup> out of 121 teams for best overall design
- Collaborated in a cross disciplinary 6-member team producing a ballistic rescue parachute system for the DJI Phantom drone series
- Oversaw the structural design and testing of the system, which included the encasement, attachment, and deployment method of the system using SolidWorks, Onshape, MATLAB, and ANSYS
- Analyzed quality control for flight efficiency with the desired result of limiting additional flight time to 15% above initial while bringing the drone safely to the ground at a speed less than 5 m/s

## **CAMPUS INVOLVEMENT**

### **The American Institute of Aeronautics and Astronautics (AIAA)**

August 2014 – May 2018

- Designed motor, battery, and landing gear mounts for an RC aircraft using SolidWorks

### **Theta Tau Professional Engineering Fraternity**

January 2016 – May 2018

- Participated in SolidWorks design and build teams for 1<sup>st</sup> prize winning homecoming float
- Volunteered at Spring Fling and periodic road cleanups applying effective teamwork to positively impact the community and environment

### **National Society of Collegiate Scholars (NSCS)**

January 2016 – May 2018

### **Gamma Beta Phi Honor Society**

January 2016 – May 2018

## **SKILLS**

**Technical:** MATLAB/Simulink, AutoCAD, SolidWorks, Onshape, CNC, ANSYS, LabVIEW, C, JavaScript, HTML, Python, R, Microsoft Project, Milestones Professional, Microsoft Access, Visual Basic, SQL