Stephen Hall

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Aerospace Engineer

33427 N 25th Ave
Phoenix, AZ 85085

EDUCATION

Master of Science in Engineering, Aerospace Engineering **May 2020**
Arizona State University, Ira A. Fulton Schools of Engineering | GPA: 3.78

Bachelor of Science in Engineering, Aerospace Engineering **May 2019**
Arizona State University, Ira A. Fulton Schools of Engineering | GPA: 3.87

EMPLOYMENT

Honeywell, *Test Engineer II* **October 2020 - Present**
- Responsible for the design and installation of various sensors used in the development of gas turbine engines
- Perform required sensor calibration for strain gages, thrust rings, capacitance probes, pressure and temperature probes, etc.
- Assist with high-speed data acquisition and test cell-set up as well as any required troubleshooting

Honeywell, *Rotational Engineer* **January 2019 - October 2020**
- Part of rotational program with 6 months experience in each Quality, Project Engineering, and Instrumentation
- Responsible for various qualification testing and Source Status Elevation of hardware for COMAC and Irkut HGT750 APU
- Automated daily team activates with Excel VBA and MS Flow to acquire Green Belt and cost reduction of $16K a year

Honeywell, *Flight Test Instrumentation Engineering Intern* **May 2018-August 2018**
- Designed, installed, programmed and operated various hardware and software systems to collect data from different engines and avionics installed to the Boeing 757 Flying Test Bed
- Acted as flight test coordinator to control, demonstrate, and observe various engines and avionics

Arizona State University, *Aerodynamics Teaching Assistant* **August 2018- December 2018**
- Explained subsonic aerodynamic concepts in weekly office hours and graded homework assignments

Arizona State University, *Senior Community Assistant* **August 2016-May 2019**
- Senior Community Assistant of 34 other team members and 1,600 residents
- Educated, enforced, and upheld university and residential life policies to foster a positive environment for students

Arizona State University Technology Office, *Amazon Student Developer* **January 2018- May 2018**
- Used python and Node.js to develop and test various Amazon Beta Technologies

PROJECT EXPERIENCE

Attitude Control System, *Avionics Team Lead* **May 2017- August 2018**
- Designed a pneumatic system in attempt to control the roll, pitch and yaw of a high-powered rocket during flight
- Developed and programmed unique electronics to test capabilities of the ACS while streaming live data and actions

Daedalus Astronautics Rocketry Club, *Maximum Altitude Competition* **August 2015 – March 2016**
- Participated in weekly team meetings to construct, develop and design a minimum diameter, high-powered rocket
- Worked around a strict budget of $500 to meet the basic qualifications of the competition

Daedalus Astronautics Rocketry Club, *Drag Team Race* **August 2015- May 2016**
- Applied the engineering design process and recently learned knowledge to design, build and test a high-powered rocket
- Member of a 5-person team that focused on the fundamentals of basic high-powered rocketry

RESEARCH EXPERIENCE

Liquid Rocket Propulsion Research, Arizona State University, *Avionics Team Lead* **January 2018- January 2019**
- Team leader of a 7-man team focused on safely operating a Liquid Rocket Engine from a distance using Arduinos, LabView, and Window Form Applications

Solid Rocket Propulsion Research, Arizona State University, *Undergraduate Researcher* **May 2016- August 2017**
- Mixed and burned various compounds to characterize and optimize solid rocket propellant

CERTIFICATIONS

Lean Six Sigma Green Belt Certified, Honeywell **July 2019**
- Applied DMAIC tools to automate various processes of pulling and presenting daily data and metrics

RELEVANT COURSEWORK

Aircraft and Rocket Propulsion, Subsonic/Supersonic Aerodynamics, Heat Transfer, Space Vehicle Dynamics and Control, Aerospace Structures and Materials, Thermofluids, Solid Mechanics, Statics & Dynamics, Solid Modeling, MATLAB, System Dynamics and Controls, Circuits, Signals and Systems, Advanced Numerical Methods for Engineers, Statistics

TECHNICAL SKILLS

SolidWorks, NX, MATLAB, Excel VBA, Arduino (C++), 3D Printing, Adobe Illustrator, Adobe Photoshop, Laser Printer, Intro to Java, Intro to Python, Intro to Node.js