Patrick Imper

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Education:

- Bachelor of Science, Aerospace Engineering (Astronautics) — Expected Graduation: May 2023
  Arizona State University, Tempe AZ. — Cumulative GPA: 3.99

Awards:

- Dean's List for Fall 2019 through Spring 2022 Semesters

Work Experience:

QuEST Global, Phoenix, AZ. — **May 2022 – Present**

Manufacturing/Quality Engineering Intern

- Contracted by QuEST Global to perform preliminary review board (PRB) duties for Honeywell Aerospace Phoenix Engines division.
- Collaborated with a team of manufacturing/quality engineers to perform PRB tasks
- Dispositioned over $500,000 worth of assembly/test rejected or non-conforming parts for rework/repair, scrap, or use-as-is.
- Utilized engineering drawings and specifications to determine the conformance of a rejected parts condition.
- Worked with workflow technicians, senior quality engineers, and inspectors to evaluate rejected parts.
- Communicated with aerospace supplier quality engineers to determine rework potential of rejected non-conforming parts.
- Utilized on a daily basis an electronic inventory management and business operations software.

Barro's Pizza, Tempe, AZ. — **June 2021 – May 2022**

Cook

- Adhered to closing procedures ensuring optimal cleanliness and sanitation, and proper food handling and refrigeration.
- Maintained and operated a large volume industrial stand mixer following safe food preparation guidelines.

Extracurricular Projects

Sun Devil Rocketry — **September 2019 – Present**

Liquid Propulsion Research Team Lead

- Led a team of engineering students in the development and research of plumbing infrastructure and propulsion technology required for a liquid bi-propellant rocket engine.
- Developed a MATLAB code for calculating the pressure drop across a liquid plumbing system.
- Designed a piping and instrumentation diagram (P&ID) for a pressure-fed rocket engine.
- Researched and utilized viable commercial off-the-shelf (COTS) valves and fittings for assembly of the P&ID.
- Utilized ANSYS Fluent for modeling fluid flow and mixing from a liquid-liquid injector.
- Generated engineering drawings to conveying machining instructions of a liquid-liquid injector and manifold.
- Collaborated with test engineers to design testing requirements and procedures for different sub-system components, i.e., pressure transducers, orifice flow meters, valves, and injectors.

Proficient Technical Skills:

- *CAD & FEA Software:* SolidWorks, Autodesk Inventor, Blender, Fusion 360, ANSYS, ANSYS Fluent
- *Engineering:* Engineering Drawings, GD&T, Additive Manufacturing, PDR, CDR, Gantt Chart, AHP, P&ID
- *Coding:* MATLAB, JavaScript, Arduino
- *Software:* Microsoft Teams, Teamcenter, SAP, Microsoft Office 365