**Koi Quiver**

(602)-339-3831 / kaquiver@gmail.com

**Summary of Qualifications**

* Practiced oral, written, and presentation skills demonstrated by research poster, PDR, CDR, design review presentations, and client communication.
* Teamwork, collaboration, and communication skills demonstrated by mentoring student over the past 4 years, working with different professional engineering teams, and national lab research groups.
* 3 years of working with CAD, MATLAB, and other software systems specific to certain functions.

**EDUCATION**

**Northern Arizona University Flagstaff, Arizona**

*B.S. Mechanical Engineering (ABET accredited)* GPA: 3.10 08/2020 – Current

* Senior Capstone: Northrop Grumman Supersonic Rocket
* Fluids, Mechanics of Materials, Experimental Thermal-Fluids Labs

**Work History**

**National Renewable Energy Laboratory Golden, Colorado**

*Hydrogen Plasma Smelting Reduction (HPSR) Intern* 06/3/2024 – 07/26/2024

* Research to produce Hydrogen Non-Thermal Plasma (NTP) for reduction of Iron Ore to Metallic Iron.
* Trained and worked with an experimental Dielectric Barrier Discharge Reactor (DBD) in lab.
* Designed DBD reactor for the purpose of adding/withstanding additional heat to plasma discharge area of reactor. Desing to add heat without affecting the plasma discharge.
* Presented research findings to the Principle Investigative group of the HPSR project.
* Developed and coded heatmap to understand heat gradient of external heating source on iron ore in reactor.

**Boeing Co. Oklahoma City, Oklahoma**

*Manufacturing Engineering Intern – B52 Life Extension 2050* 05/19/2023 – 07/28/2023

* Participated as member of an Integrated Production Team (IPT) to support the integration and update of radar systems in the B-52 life extension project.
* Supported the development and implementation of radar by checking drawings and wiring diagrams.
* Supported the development, identification, and implementation of conceptual designs and manufacturing plans.
* Cross referenced design drawings with manufacturing plans to ensure manufacturing is seamless.
* Communicated with additional teams to receive help and information on manufacturing processes.
* Worked and communicated with the E-7A Wedgetail manufacturing engineering team.

**Office of Indigenous Student Success (OISS) Flagstaff, Arizona**

*Indige-Peer Mentor* 08/2022 - Current

* Help students with their transition to campus and help student solve problems that may arise.
* Be a connection between students and Office of Indigenous Student Success professional staff.
* Help OISS staff and building staff run events and responsibilities around the building.

**SKILLS/TRAININGS/CERTIFICATIONS**

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| MATLAB - Proficient | SolidWorks - Proficient | Catia - Proficient |
| GOLDESP – Proficient | Microsoft 365 Suite - Proficient | Interpersonal - Proficient |
| IVT - Proficient | Salesforce -Proficient | NAU Machine Shop Mill - Certificate |
| CMPro - Proficient | Canva - Proficient | ANSYS Fluid Modeling - Proficient |
| Redars - Proficient | Delegation - Proficient | Material Procurement – Proficient |