Randall Jim Holgate

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List of Qualifications

- Possesses strong customer service skills developed over four years of service jobs with proficient reviews.
- Works well in a team, able to communicate effectively with team members, and deliver assigned tasks on time.
- Demonstrates critical thinking skills while under pressure that was developed through team projects and service jobs.
- Obtains leadership skills that were developed from previous service jobs and projects. Also has received various invitations from leadership committees for academic performance.

Projects

- Designed a 3.4-megawatt wind turbine using solid works, mat lab, and other software applications. Evaluated different airfoils through an online wind tunnel simulation and used mat lab to plot the data to decide which airfoil best suited our design. Then thermodynamics to calculate power output per unit.
- Used mat lab to create a heat map on a square plate with regions of heat generation, conduction, and convection using nodal analysis and the finite differenced heat equations.
- Currently working on designing a solar thermal storage device for an organization known as Red Feather. My part for this project was analyzing heat exchangers and selecting the best one for our team's design.

Work History

Cart Driver, Antelope Point Marina, Page, AZ   **May-August 2018, May-August 2019**
- Transport customers from the land down to the docks with a UTV towing a trailer, load and unload the customer's items on to the marina.

Plumbing Associate, Home depot, Flagstaff AZ   **June-present 2020**
- Assist customers by using my problem-solving skills for their plumbing issues and projects.

Education

Northern Arizona University, Flagstaff, AZ   **August 2016-May 2021**

- Continuing senior year with 115 credits completed so far towards a Bachelor's of Science in Mechanical Engineering.

Technical Skills

- Proficient in Microsoft excel, power point, and word.
- Proficient in programming language MATLAB.
- Proficient in CAD software SOLIDWORKS.
- Intermediate programming skills in Arduino.