**Education**

**Rice University** Houston, Texas

**B.S. Mechanical Engineering** GPA 3.34Anticipated graduation May 2024

**Experience**

Ground Systems Lead **Rice Eclipse** Rice University, Houston, TX May 2021 – Present

MemberSeptember2020 – Present

* Lead several engineering projects to design a new flame diverter for mobile engine test stand and oxidizer supply system for team static testing projects
* Assemble and check oxidizer supply equipment for all Eclipse engine tests
* Prototype and assemble physical components of electronic testing and data acquisition platform (ARCA)
* Improve cost, efficiency and value of static testing procedures through broad knowledge of team infrastructure
* Built and launched personal rocket for Tripoli L1 certification

Lab Assistant **Rice University OEDK**, Houston, TX August 2021 – Present

* Assist Oshman Engineering Design Kitchen (OEDK) users in advanced equipment including 3D printers, laser cutters, and metal tools
* Track and manage OEDK consumable inventory for over 1000 students and more than 100 teams
* Improve OEDK facilities through consistent maintenance and laboratory upkeep

Employee **Century Farms Distillery** Spencer, IA May 2016 – August 2021

* Assembled PVC, copper and PEX piping/tubing for custom-made still and cooling water system
* Integrated IP security camera system over three buildings with network video recorder
* Mixed and fermented whiskey mash for distillation

Go Kart Lead **Arnolds Park Amusement Park** Arnolds Park, IA  May 2020 – September 2020

Go-Kart Operator Summer 2018 and 2019

* Lead and supervised team of 12 to run up to 1100 go-kart rides per day
* Implemented COVID-19 preparedness policy in compliance with state, county and city regulation
* Performed maintenance and repairs on kart engines, frames and bodies

**Leadership**

Senator **Rice Student Association** Rice University/Hanszen College March 2021 - Present

* Work to improve and expand dining options after and between hours for all students
* Advocate for increased academic and mental health support for students during COVID-19 pandemic
* Act as liaison between students and administration for a broad range of issues and concerns
* Collaborate with others to improve student life

**Technical Skills & Coursework**

**Software & Languages**

Microsoft Office, SolidWorks, Autodesk Inventor and Fusion360, Adobe Illustrator, Wolfram Mathematica, MATLAB, Python, TK Solver, RStudio, Git, Inkscape, GIMP, OpenRocket

**Tools & Related Skills**

Sheet metal work, technical writing, 3D printing (Prusa FDM & SLA, Formlabs SLA, Stratasys), Laser cutter (Epilog), waterjet, woodworking (miter, panel and table saws, drill press), MIG welding, soldering