**Rowdy Raider**

3640 Col. Glenn Hwy. Email: rowdy.2@wright.edu

Fairborn, OH 45324 Phone: (937) 775-4491

**OBJECTIVE:**

To obtain an entry-level Mechanical Engineering position

**EDUCATION:**

Bachelor of Science in Mechanical Engineering May 2020

Wright State University, GPA: 3.6 Dayton, OH

* Salutatorian Scholarship
* Honors Competitive Scholarship

**COURSEWORK:**

* Circuit Analysis
* Thermodynamics II
* Mechanics of Materials
* Mechanical Design
* System Dynamics
* Aerospace Propulsion
* Technical Communication for Engineers and Computer Scientists
* Compressible Fluid Flow
* Computational Methods for Mechanical Engineers
* Computational Fluid Dynamics

**TECHNICAL SKILLS:**

* Microsoft Office: Word, PowerPoint, and Excel
* Programming: MATLAB, Python, and LabVIEW
* 3D Modeling: Solidworks and Fusion 360
* Operation: Desktop 3D Printer and CO2 Laser Cutter

**WORK EXPERIENCE:**

**Mechanical Engineering Intern,** Advanced Integration LLC, Columbus, OH May 2017 – August 2018

* Created and edited 2D/3D CAD models in Solidworks including assembly drawings for manufacture
* Generated and revised bills of materials within Solidworks drawings and excel documents
* Designed and employed unique, innovative solutions to in-house organization and convenience problems
* Worked as a part of a successful engineering team in a professional environment
* Communicated with part suppliers and custom part manufacturers
* Worked safely with ITAR restricted data

**Shopper/Deliverer,** Shipt, Fairborn, OH Summer 2019 – Spring 2020

**Employee,** Brentlinger’s Farm Market, Dayton, OH Summer 2016, Summer 2019 – Fall 2019

**Courtesy Clerk,** Kroger, Springfield, OH March 2016 – May 2017

**PROJECTS:**

**SAE Aero Design West Competition** August 2019 – May 2020

* Worked in cooperation with a group of team members of varying skill sets
* Designed and Built a Micro Class Aircraft
* Created a unique design under strict restrictions and within predetermined budget
* Used Solidworks to model the overall aircraft design as well as individual parts
* Fabricated critical aircraft components using Solidworks drawing and a CO2 laser cutter
* Constructed multiple prototypes and conducted testing on those prototypes
* Revised design based on test results and reflection
* Adapted to a remote working environment

**Thermal-Fluids Lab** January 2020 – April 2020

* Used LabVIEW and a data acquisition system to collect data from turbine flow meters and type E thermocouples
* Conducted analysis on acquired data to generate calibration curves
* Applied uncertainty analysis to validate the data and calibration curves
* Collected heat transfer data from an unknown rod and employed calibration curves to determine material type
* Composed multiple lab write-ups to discuss experimental procedures, results, and conclusions