COLE DOMENICO

Portland, OR — Portfolio: colesprojects.com (503)-280-0957 — cole.domenico1997@gmail.com

EDUCATION

Oregon State University

September 2020

Cumulative GPA: 3.54

BS: Mechanical Engineering

Major GPA: 3.65

Specialized Coursework

- Applied Heat Transfer
- Gas Dynamics

- Thermodynamic Design
- Vibrations

Senior Design Project

July 2019 — July 2020

OSU AIAA Experimental Sounding Rocketry Association (ESRA) Team projects/esra

Designed and built a solid-propellant rocket that reached an altitude of 29,038 feet as a part of the collaborative, interdisciplinary ESRA team. As the propulsion team lead, my contributions and achievements were:

- Led a team of three other members to develop and design a reliable propulsion system.
- Characterized a new propellant formulation in sub-scale testing.
- Designed, built, and tested a data acquisition system on a critical timeline for sub-scale and full-scale static fire testing.
- Redesigned a motor assembly to minimize convection between pressure vessel and thermal liner.
- Reliably manufactured propellant grains for static fire testing and flight.

WORK EXPERIENCE

Johnson Crushers International — MECOP Internship

April — September 2019 Eugene, Oregon

Plant Design Engineering

- Analyzed flexural and rigid body modes of vibration using sensors and FEA tools.
- Designed production parts and created CAD models and drawings for manufacturing.
- Designed and certified a Below the Hook (BTH) tooling fixture.
- Worked hands-on designing hydraulic power systems.
- Programmed engineering automation tools with Visual Basic for Inventor.

Daimler — MECOP Internship

April — September 2018 Portland, Oregon

Product Validation - Fuel Economy

- Designed, built and tested a system to autonomously adjust trailer weight distribution for fuel economy testing using Python.
- Fabricated and tested diesel flow meters for measuring fuel consumption of trucks during tests.
- Designed parts for testing equipment using Siemens NX.

SKILLS & CERTIFICATIONS

Proficient

- Passed Mechanical FE Exam
- Python
- C++
- Solidworks
- Inventor
- Eagle
- Matlab
- Engineering Equation Solver
- LATEX
- High power rocketry certification L2
- MS Suite

Experienced

- Femap
- Siemens NX
- LabVIEW
- Simulink
- LTspice
- VBĀ
- Linux Bash Terminal
- HTML
- CSS
- Machining
- MS Project