

COLE DOMENICO

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EDUCATION

Oregon State University

BS: Mechanical Engineering

September 2020

Major GPA: 3.65

Specialized Coursework

- Applied Heat Transfer
- Gas Dynamics
- Thermodynamic Design
- Vibrations

WORK EXPERIENCE

Johnson Crushers International — MECOP Internship

Plant Design Engineering

April – September 2019

Eugene, Oregon

- Research and development on new multifrequency screen technology.
- Designed a Below the Hook certified lifting device.
- Designed a gear oil cooler for a screen wheelcase.
- Developed engineering automation tools in Inventor VBA.
- Supported current projects in the plant engineering department.

Daimler — MECOP Internship

Product Validation — Fuel Economy

April – September 2018

Portland, Oregon

- Designed, built and tested a system to autonomously adjust trailer weight distribution for fuel economy testing.
- Fabricated and tested diesel flow meters.
- Provided other departments with Python support.

Math Tutor

2016 — 2018

- Taught students mathematics from basic algebra to calculus.
- Coached people of all ages including adults and middle school kids.

PROJECTS

Senior Design Project

July 2019 — Present

OSU AIAA Experimental Sounding Rocketry Association (ESRA) Team osuaiaa.com/esra

ESRA is a collaborative, interdisciplinary team who aims to design and build a solid-fuel rocket that will reach 30,000 feet. As the propulsion team lead, I have the following responsibilities:

- Lead a team of three other members to develop and design a reliable propulsion system.
- Characterize a new propellant formulation in sub-scale testing.
- Design, build, and test a data acquisition system on a critical timeline for sub-scale and full-scale static fire testing.
- Redesign motor assembly to minimize convection between pressure vessel and thermal liner.
- Reliably manufacture propellant grains for static fire testing and flight.

Personal Projects

Desktop CNC mill: Designed and am currently manufacturing a 3 axis CNC mill using stepper motors, a VFD controlled spindle, linear bearings, and machined parts.

Nixie Clock: Designed and built a clock using nixie tubes.

Automatic Watch: Built an automatic mechanical watch.

SKILLS

Proficient

- Python
- C++
- Solidworks
- Inventor
- Eagle
- Matlab
- Engineering Equation Solver
- L^AT_EX

Experienced

- VBA
- Linux Bash Terminal
- HTML
- Machining
- Siemens NX
- Femap
- LTspice
- Simulink

REFERENCES

Dr. Kyle Niemeyer

Professor for senior design project
Assistant Professor of Mechanical Engineering at Oregon State University

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Jorge Loza

MECOP Mentor
Mechanical Design Engineer at KPI-JCI and Astec Mobile Screens

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Engineering Manager at KPI-JCI and Astec Mobile Screens

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