

Colin Noronha

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OBJECTIVE

Graduate student looking for mechanical engineering positions in controls and mechatronics.

Research

Noronha, Colin, and Gregory Noronha, 2021. Investment Performance and Money-Weighted Rate of Return: The Problem of Multiple Rates. Forthcoming in *Journal of Performance Measurement*

EDUCATION

University of Washington

Master of Science in Mechanical Engineering, Focus in Controls

GPA: 3.85

Seattle, WA

March 2022

California Maritime Academy

Bachelor of Science in Mechanical Engineering, Minor in Math
Graduated Magna Cum Laude

GPA: 3.58

Vallejo, CA

May 2020

PROJECT WORK

Thermoplastic Welding

September, 2020 – Present

- Researched different methods for welding thermoplastics such as RF, induction, resistance, ultrasonic, and laser welding and created a flow diagram to assess the best weld technique to use in different applications such as an airplane wing panel, a drone, or IV bags
- Designed prototype for RF welder in Solidworks that utilizes a closed loop system to control weld pressure, displacement and temperature
- Developed Matlab code that read data from a thermal camera, signal generator, and Arduino to control the pressure and displacement of a linear actuator

Solar Boat Capstone Project

August, 2019 – March, 2020

- Designed and analyzed full gear train assembly for solar boat in Solidworks and integrated it into full boat assembly
- Machined drive shafts in a lathe and mill to ensure proper assembly of gears, bearings, motor and propeller
- Communicated with four team members to properly merge different parts of the project such as the solar panels, drive train, and frame into one cohesive boat

WORK EXPERIENCE

P2S Inc.

Long Beach, CA

Mechanical Engineer Intern

June, 2019 – August, 2019

- Collaborated with senior MEP engineers to complete load calculations, draw up ductwork, and create diagrams of buildings with Revit and AutoCAD
- Communicated with clientele and made recommendations for major HVAC equipment such as boilers and chillers based on load calculations

Kidder Mathews

Seattle, WA

Building Engineer Intern

May, 2018 – August, 2018

- Maintained HVAC equipment in four separate buildings (e.g. chillers, air handlers, heat pumps, fan coil units, VAV boxes, fluid coolers, boilers, condensing units, and compressors)
- Connected with five to ten vendors to complete large projects such as replacing compressors or installing new elevators