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. Under Review at *Journal of Performance Measurement*

EDUCATION

University of Washington — Seattle, WA
Master of Science in Mechanical Engineering, Focus in Controls — GPA: 3.84 — March 2022

California Maritime Academy — Vallejo, CA
Bachelor of Science in Mechanical Engineering, Minor in Math — GPA: 3.58 — May 2020
Graduated Magna Cum Laude

CORE SKILLS

Matlab(4 years), Solidworks(2 years), Manufacturing(1 year), Ansys(1 year)

PROJECT WORK

Thermoplastic Welding — September, 2020 – Present

- Researched different methods for welding thermoplastics such as RF, induction, resistance, ultrasonic, and laser welding
- Developed a flow diagram to asses the best weld technique to use in different applications such as an airplane wing panel, a drone, or IV bags
- Designed prototype in Solidworks to automate welding process by monitoring internal temperatures and weld pressures

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