Georgi Cowan

georgicowan@gmail.com

(954)-560-0618

Education

Florida State University **May 2021**

Bachelor of Science in Chemical Engineering

Work Experience

General Dynamics Electric Boat **Aug 2021 – Present**

Engineer II

- Spearheaded design engineering for three cutting-edge submarine utility systems: plumbing, electronic cooling, and potable water
- Developed and reviewed system diagrams, construction drawings, test documents, and operating instructions from conception to design
- Managed and responded to a high volume of Requests for Information (RFI), facilitating efficient communication between vendor and customer
- Oversaw construction and design change orders, keeping projects on track within budgets and timelines
- Compiled comprehensive work packages which included defining work scopes and compiling drawings, technical information, and special notes so work could be properly executed by the trades
- Ensured high-quality construction progress through meticulous manufacturing site inspections and monitoring
- Presented concise, impactful reports on construction status and milestone achievements to stakeholders
- Performed advanced calculations involving fluid dynamics and thermal loading
- Selected materials and equipment, meeting strict technical specifications and regulations
- Supervised and delegated system engineering tasks to Fluid System Engineer I team members
- Maintained an active secret security clearance, reflecting commitment to confidentiality

Research and Projects **Aug 2020 – May 2021**

Undergraduate Thesis

- Pioneered the design and execution of an experiment investigating the key factors influencing extensional flow in non-Newtonian fluids
- Utilized MATLAB to analyze and interpret raw image data.
- Crafted a comprehensive 30+ page thesis, presenting groundbreaking findings before a 3-member supervisory committee
- Earned the prestigious award of Honors in the Major, following a successful thesis defense

Continuous Stirred Tank Reactor

- Studied effects of mass flow rate, stirring rate, and temperature on fraction conversion in a saponification reaction

Heat Transfer

- Analyzed a heat transfer unit comprised of four double pipe heat exchangers in a professional lab setting to investigate the effects of steam pressure and fluid velocity on the rate of heat transfer.

Skills and Proficiencies

- Possess technical proficiency in MATLAB, Teamcenter Visualization Mock-up, AutoCAD, Revit, JMP Pro, and Microsoft Office
- Demonstrated expertise in mechanical troubleshooting, technical report writing, project management, and data collection and analysis
- Adaptable and detail-oriented with a focus on safety and regulatory compliance in delivering high-impact projects in diverse environments
- Strong communication and leadership skills, empowering teams to excel and achieve exceptional outcomes