KHANH VAN PHAM

U.S. Citizen

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OBJECTIVE: Seeking internship/co-op for Summer2022 in materials science engineering with design R&R or hands-on.

EDUCATION

Texas A&M University – College Station, TX
B.S. in Materials Science and Engineering — Expected Graduation May 2022
Cumulative GPA: 3.302/4.0

M.E. in Materials Science and Engineering — August 2021 - Present
Cumulative GPA: 4.0/4.0

Lone Star Community College – Conroe, TX
A.S. in General Science — Graduated May 2019
Cumulative GPA: 3.6/4.0

INTERNSHIP EXPERIENCE

Locus Bio-Energy Solutions — May 2021 – August 2021
Engineering Intern (40 hours/week Paid)

- Perform interfacial tension tests between crude oil and biosurfactants to test the efficiency of the products
- Collaborated with other interns to complete projects to recommend a product the clients for enhanced oil recovery
- Complied and characterized all biosurfactants with organic solvents to create a base data set for the company

PROJECTS

Cold Spray Additive Manufacturing of High Temperature Materials — Aug 2021 - Present
Team Leader (12 hours/week)

- Collaborate with other teammates to identify and evaluate the solutions to the project given
- Research and design post-processing method to improve toughness of cold-sprayed niobium materials
- Responsible for meeting deadlines and attending meetings with mentors to lead the team to success

DOE – Determination of Degradation in Polymers Used to Make Dog Toys — Feb 2021 – April 2021
Student (12 hours/week)

- Design an experiment with three variables that would affect the materials' properties independently
- Create a timeline and use a DSC to characterize the materials before and after exposure to different environment
- Create a report with detailed results and statistical analysis of the experiments to demonstrate results achieved

SKILLS & TOOLS

- Programming Languages: Python
- Tools: DSC, DMA, SEM, Tensile Testing Machines, Hardness Testing Machines, Optical Tensiometer, Pycnometer
- Office Software: MS Office, OS Apple, MS Windows
- Languages: English (fluent), Vietnamese (fluent)

RESEARCH EXPERIENCE

Evaluation of Corrosion Rates in Sucker Rods Exposed to Simulated Sour Environments — Jan 2021 – June 2021
Undergraduate Research Assistant (8 hours/week Unpaid)

- Evaluate the effect of H2S gas on the corrosion rate and pitting of carbon steel samples
- Utilized skills from chemistry and materials lab to evaluate the samples surface after a week of exposure to H2S gas
- Observe and compile detailed results on 96 different samples to be sent to Weatherford representative