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EDUCATION

B. S. Chemical Engineering; Minors, Computer Science, Green Engineering, Chemistry, Virginia Tech, Blacksburg, VA, May 2021
Overall GPA: 3.33/4.0, Dean's List, Fall 2017, Spring 2018, Fall 2019; Wenger Scholar

EXPERIENCE

Project Intern, Universal Fibers; Bristol, VA February 2021 – Present

- Project Title: Laser or Ultrasonics as replacement for Compressed Air Yarn Entanglement

Undergraduate Research, Renewable Materials Lab August 2018 – Present

- Research projects focused on environmentally friendly polymers, elastomers, and additives
- Co-author on published papers in *Green Materials*, *Journal of Applied Polymer Science* and *Journal of Water Process Engineering*
- Presentations: International Elastomer Conference, Cleveland, OH (2019); Macromolecular Science and Engineering Annual Technical Conference, Blacksburg, VA (2019)

SKILLS AND CERTIFICATIONS

Computer Languages: C, Java, C#, HTML, MATLAB
Software: Microsoft Office, Windows, Linux, ASPEN Plus, Image-J, AutoDesk Inventor CAD
Skills: Mechanical Testing and Rheology, Polymer Rubber Compounding and Extrusion, Fourier Transform Infrared (FTIR) Spectroscopy
Certifications: Process Safety (ELA950), Identifying and Minimizing Process Safety Hazards (ELA952), , Inherently Safer Design (ELA984), Fundamentals of Process Intensification (ELA300), Intensified Reaction Processes (ELA301), Process Intensification in Separation Processes (ELA302), Fundamentals of Intensified Heat and Mass Transfer (ELA303), Introduction to Modular Chemical Process Intensification (ELA352)

ACTIVITIES

Society of Plastic Engineers March 2019 – Present
American Chemical Society, Rubber Division March 2019 – Present
Virginia Tech Basketball Pep Band October 2018 – Present
American Institute of Chemical Engineers August 2018 – Present
Kappa Kappa Psi, Honorary Band Fraternity January 2018 – Present
The Marching Virginians August 2017 – Present
Hypatia Living Learning Community Resident August 2017 – May 2018

LEADERSHIP

Section Leader, The Marching Virginians June 2020 – February 2021

- Formulated lesson plans for rehearsals
- Lead sectionals to improve playing ability of members

Vice President of Service, Kappa Kappa Psi Jan 2020 – Jan 2021

- Lead and develop service projects, including Virginia Tech Honor Band and the Band Camp of the Marching Virginians

Parliamentarian, Kappa Kappa Psi April 2019 – Dec 2019

- Kept order within chapter meetings, reviewed chapter constitution