

Rohan Dighe

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EDUCATION

Purdue University Honors College

Major: Chemical Engineering

GPA: 3.79

May 2020

RELEVANT WORK EXPERIENCE

Process Engineering Intern

May 2019 – August 2019

Chevron Phillips Chemical Company – Sweeny/Old Ocean Facilities

Sweeny, TX

- Developed installation plan for a compressor water injection system via a thorough literature review, a *detailed energy balance*, an investigation of other sites' best practices, and a compilation of SME input
- Identified challenges to desiccant bed life in a dryer *by modeling water adsorption profiles* and proposed a solution to maximize time between changeouts
- Modeled cooling tower performance *with industry standard software* to recommend tower improvements

Process Engineering Co-Op

August 2018 – December 2018

LyondellBasell – La Porte Operations

La Porte, TX

- Developed project scopes for and initiated execution of 8 *safety, optimization, and efficiency related projects*
- Collaborated with external and internal stakeholders to develop effective short- and long-term scopes for increasing efficiency of polyethylene product loading and transportation
- Conceptualized, initiated, and circulated project scope for a safety- and environmental compliance-driven capital project worth >\$150k

Engineering Research and Development Intern

May 2018 – August 2018

Honeywell UOP – Manufacturing and Product Technology Group

McCook, IL

- Learned to operate 6 different catalyst manufacturing unit operations
- Contributed to developing 5 viable catalyst recipes, at least one of which advanced to the prototyping stage

LEADERSHIP EXPERIENCE

Vice President, Treasurer, Technical Coordinator

August 2016 – Present

American Institute of Chemical Engineers – Purdue Student Chapter

West Lafayette, IN

- Spearheaded a donation campaign to raise over \$20,000 from 25 partners, the most ever raised by the chapter
- Independently learned web and mobile app design and produced several high-quality websites and apps; managed over \$30,000 in funds as treasurer

RELEVANT RESEARCH EXPERIENCE

Undergraduate Researcher

August 2017 – Present

Davidson School of Chemical Engineering, Purdue University

West Lafayette, IN

- Engaging in collaborative research on the synthesis, characterization, and catalysis of Lewis acid zeolites and the effects of synthesis parameters on zeolite catalysis and morphology

OTHER CAMPUS INVOLVEMENT

- Honors Engineering Teaching Assistant, Aug 2017 – May 2019
- Honors Engineering Leadership Council, Sept 2016 – May 2017
- Purdue Honors Ambassador, Jan 2017 – Dec 2018
- Society of Prof. Engineers, Aug 2016 – May 2017

HONORS AND AWARDS

- Dean's List/Semester Honors, Dec 2016 – Present
- Earl and Jean Schrader Scholar, Aug 2018
- Rust Chemical Engineering Scholar, June 2017
- Purdue Engineering Industrial Roundtable Scholar, Aug 2019
- AIChE Donald F. Othmer Academic Excellence Award, Nov 2018
- National Merit Scholarship Finalist and Awardee, Feb 2016

SKILLS & TECHNICAL COMPETENCIES

- Fluent in MATLAB, Python, C, HTML/CSS
- 3 Certifications in Hazard Recognition and Mitigation and Safe Design totaling 10 hours of professional development from AIChE: Safety and ChE Education