

# Rohan Dighe

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## EDUCATION

### Purdue University

Major: Chemical Engineering with Honors Designation

GPA: 3.79

May 2020

## RELEVANT WORK EXPERIENCE

### Process Engineer

Chevron Phillips Chemical Company – Cedar Bayou Facility

June 2020 –

Baytown, TX

### Process Engineering Intern

Chevron Phillips Chemical Company – Sweeny/Old Ocean Facilities

May 2019 – August 2019

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

LyondellBasell – La Porte Operations

August 2018 – December 2018

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

Honeywell UOP – Manufacturing and Product Technology Group

May 2018 – August 2018

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

American Institute of Chemical Engineers – Purdue Student Chapter

August 2016 – May 2020

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

Davidson School of Chemical Engineering, Purdue University

August 2017 – May 2020

West Lafayette, IN

- Honors Project: "Synthetic Routes to Prepare MEL Zeolite Catalysts with Different Active Site Content and Arrangement"

## 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