

# Rohan Dighe

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## EDUCATION

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**Purdue University – West Lafayette, IN**

**GPA: 3.79**

**Major:** Chemical Engineering with Honors Designation

May 2020

Honors Thesis: “*Synthetic Routes to Prepare MEL Zeolite Catalysts with Different Active Site Content and Arrangement*”

## RELEVANT WORK EXPERIENCE

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**Operations Engineer**

June 2020 – Present

**Chevron Phillips Chemical Company – Cedar Bayou Plant**

Baytown, TX

- Using Python, Scikit-Learn, and other linear/nonlinear modeling tools along *with process data to develop predictive models/dashboards* that accurately assess and *predict ethylene unit performance*
- Was an engineering contact on nights for project execution/engineering, equipment inspection, and unit return-to-service safety walkdowns during a 40+ day unit shutdown and maintenance window
- *Engineering, designing, and executing* process improvements and upgrades to major equipment; modifying plant safety systems to maintain regulatory compliance while *regularly communicating progress* to management

**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
- *Modeled water adsorption profiles* and cooling tower performance *with industry standard software* to recommend operational and equipment 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*
- 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

- Contributed to developing 5 viable catalyst recipes, at least one of which advanced to the prototyping stage

## LEADERSHIP EXPERIENCE

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**Vice President, Treasurer, Technical Coordinator**

August 2016 – May 2020

**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 websites and apps using Ionic

## OTHER INVOLVEMENT

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- Chevron Phillips New Hire Network Professional Development Chair, *May 2021 – Present*
- Chevron Phillips Purdue Recruiting Team Member, *May 2021 – Present*
- Chevron Phillips Innovation and Improvement Champion, *Apr 2021 – Present*

## HONORS AND AWARDS

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- Dean’s List/Semester Honors, *All Semesters*
- 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

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- Moderately 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