Rohan Dighe

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EDUCATION

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

Operations Engineer (High Volume Commodity Chemicals - Polyethylene, Ethylene) *June 2020 – Present*
Chevron Phillips Chemical Company – Cedar Bayou Plant *Baytown, TX*

- Working as an engineering contact for day-to-day polyethylene production troubleshooting and improvements
- Using Python, Scikit-Learn, and other linear/nonlinear modeling tools along *with process data to develop statistical process control 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

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

- 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

- 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

- 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