**Ryan Shafi**

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**EDUCATION**

**University of Michigan** **Ann Arbor, MI**

*B.S.E. Chemical Engineering & B.S. Chemistry Aug 2021 – May 2025*

GPA: 3.90 / 4.00 | Capstone: Production of Light Olefins from Methanol

**EXPERIENCE**

**ExxonMobil Channahon, IL**

*Oil Movements (OM) Process Contact Engineer Aug 2025 – Present*

* Responsible for ~60 on-site storage tanks, performed daily monitoring of key parameters to ensure safe operation of equipment
* Designed and executed temporary pump and hose system to meet H2S specification on exported virgin gas oil during unit shutdown

**Eli Lilly & Company Indianapolis, IN**

*Process Engineering Intern May 2024 – Aug 2024*

* Eliminated ergonomic concerns of raw material unloading by scoping out equipment and authoring change control to Quality and HSE standards, saving up to 60 minutes of hazardous operator per batch
* Investigated foam-out events to identify issues with current overfill protection equipment and specified new instrumentation to identify foam and enhance foam detection capabilities
* Collaborated with another intern to identify critical equipment for inclusion in an automated area shutdown procedure within a GIPSM area of the process
* Updated lock-out tag-out (LOTO) procedures to maintain sampling access for purified water lines during tank lockouts

**Evonik Industries Weston, MI**

*Summer Professional Enrichment (SPE) Technical Intern May 2023 – Aug 2023*

* Created a new piping and instrumentation diagram (P&ID) as-built for pump house supplying fire and cooling water to site using BricsCAD software
* Established a protocol for tank level strapping and updated several tank level calculations to ensure consistency of level switch activation with level high-high alarm from level transmitter
* Investigated two metal grinders on-site through amperage trending and particle size sampling to construct a database to identify when to shorten grind time, preventing unnecessary equipment wear and addressing inefficiencies in procedure

**PROJECTS**

**Production of Light Olefins from Methanol Ann Arbor, MI**

*University of Michigan College of Engineering Jan 2025 – Apr 2025*

* Designed 0.5 MMTPA methanol to olefins (MTO) facility, with 4-stage distillation train achieving 99.5%+ purity separation
* Performed class 5 economic analysis to assess economic feasibility, implementing spider diagrams to visualize key economic inputs and sensitivity analysis

**Stock Dashboard Application Naperville, IL**

*Software Development Aug 2025*

* Developed GUI application tracking NYSE stocks with live data feeds, price visualizations, and automated summaries

**Portfolio Website (ryanshafi.com) Naperville, IL**

*Web Development Aug 2025*

* Developed responsive personal website with HTML5/CSS3 showcasing technical projects and experience

**SKILLS**

* Engineering Software: APEN Plus, AutoCAD, BricsCAD, SolidWorks, Siemens NX, MS 365, Seeq, GMARS
* Technical: Bulk material storage, process monitoring, process design, distillation systems, heat integration
* Programming: Python, HTML/CSS, JavaScript (learning) | PyQt5, matplotlib | APIs (yfinance, OpenAI) | Git/GitHub