

# Ryan Shafi

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## EDUCATION

### University of Michigan

B.S.E. Chemical Engineering & B.S. Chemistry

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

Ann Arbor, MI

Aug 2021 – May 2025

## EXPERIENCE

### ExxonMobil

Oil Movements (OM) Process Contact Engineer

Channahon, IL

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

Process Engineering Intern

Indianapolis, IN

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

Summer Professional Enrichment (SPE) Technical Intern

Weston, MI

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

University of Michigan College of Engineering

Ann Arbor, MI

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

Software Development

Naperville, IL

Aug 2025

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

### Portfolio Website (ryanshafi.com)

Web Development

Naperville, IL

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