

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 overflow 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 MMTA 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