

# MOHAMED HASSAN

2-365 Hullmar Drive | (416) 270-1462 | mohamed.hassan93@outlook.com

**Profile:** Analytical and highly motivated engineer-in-training (EIT) with comprehensive process improvement and project engineering experiences. Employs excellent oral and written communication and interpersonal skills in both English and French (working proficiency) to convey information to build positive working relationships.

## EDUCATION

**B.Eng. in Chemical Engineering**  
Ryerson University

**2017**

## EMPLOYMENT EXPERIENCE

**Process Specialist, EIT**  
**Cheme Engineering**

**June 2017 – Present**

- Produced and supported the conceptual design of pharmaceutical processes and clean utility systems.
- Regularly sized equipment and utilities using engineering calculations.
- Created specifications and tender documentation for various subcontractors (mechanical, system integration, insulation, and passivation contractors) when building processes based on client needs.
- Produced P&ID and Layout drawings for various projects using drafting software (AutoCAD).
- Working knowledge of Current Good Manufacturing Practices (CGMP) and ensures all work is in full compliance with CGMP when making decisions on process design, equipment procurement, and process commissioning.
- Executed commissioning studies of process and mechanical systems for clients in and around the Greater Toronto Area.

**Production Compounding Co-op**  
**Apotex Inc. – Richmond Hill, Ontario**

**May 2015 – September 2015**  
**January 2016 – September 2016**

- Worked closely with Area Engineers, Facility Managers, Manufacturing Operators, Validation and Quality Assurance departments and consultants analyzing production systems, layout and packaging processes in order to make continuous improvements focusing on safety, quality and productivity.
- Assisted the engineering group in evaluating production data using spreadsheets and databases, and performed quantitative/qualitative analysis.
- Drafted and successfully executed scale-up demonstration studies for various products and reported findings to the appropriate stakeholders (QA, EFQ, Validation, Compounding) as required.

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**Student, Quality (with accountability in Production Engineering)      August 2014 - December 2014**  
**Ddrops Company – Woodbridge, Ontario**

- Organized and supported Good Manufacturing Practice programs in support of the quality and manufacturing operations at Ddrops Company.
- Supported various R&D projects in the areas of quality, and/or engineering.
- Responsible of daily inspection and documentation of various pieces of equipment and procedures.
- Compiled and documented quality documents required for quality operations.
- Reconciled all raw material/component quantities during production to gauge how efficient the production process was.
- Co-developed and executed engineering test plans and/or checklists for repaired equipment.
- Conducted minor trouble shooting of equipment and presented findings to shareholders.
- Occasionally responsible for inspection of production in a GMP environment.

## DESIGN EXPERIENCE

**Project Member, Chemical Engineering Capstone Project      September 2016 - April 2017**  
Design a Low Density Polyethylene Plant with a Production Capacity of 50 000 tons/year

- Analyzed plant requirements and selected appropriate equipment utilized in the production of LDPE.
- Proposed design and conception technical drawings such as the Process Flow Diagram (PFD), P&IDs and technical specification drawings utilizing layout software such as Visio.
- Conducted the equipment sizing of various equipment in the conceptual plant, including compressors, heat exchangers and pumps using Aspen HYSYS.
- Conducted risk assessment analysis of the plant, using Event Tree Analysis (ETA) and Fault Tree Analysis (FTA) methods.
- Analyzed process control parameters and selected appropriate process control and final control elements for various equipment.
- Worked closely with project colleagues in drafting the final reports, developing excellent leadership and communication skills.

## INTERESTS/ACHIEVEMENTS

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|---|------|
| ▪ Professional Engineers of Ontario – Engineer in Training Designation                | 2017 |
| ▪ Ontario Scholar with French Immersion Designation                                   | 2011 |
| ▪ Python Bootcamp – Udemy (2018)  |      |
| ▪ Lifeguard and swim instructor, and was certified in CPR-C and the NLS Certification | 2008 |
| ▪ Youth in Policing Initiative student in   | 2008 |
| ▪ Avid basketball and soccer fan (Toronto Raptors and Arsenal F.C.)                   |      |