Harseerat Khaira

🌐 linkedin.com/in/hkhaira ✉ h3khaira@uwaterloo.ca 📱 416-500-1274

Skills

- **Software:** Revit, AutoCAD, MATLAB, Simulink
- **Languages:** Python, VBA, SQL
- Experience working on mechanical design of offices, schools, apartments and manufacturing plants
- Experience working in collaborative environments with large teams

EDUCATION

University of Waterloo   **Waterloo, Ontario**
B.S. in Mechanical Engineering GPA: 3.85/4.0   *Sept 2015 - Present*

EXPERIENCE

Droit Financial Technologies   **New York, NY**
Product Analyst   *Sept 2019 - Present*

- Transcribed and interpreted financial regulations into data structure representations
- Created automated testing infrastructure for web scraper in Clojure
- Researched global anti money laundering and anti terrorist funding regulations

IBI Group   **Toronto, ON**
Mechanical Engineering Student   *Jan 2019 - Apr 2019*

- Created excel macros and VBA scripts to decrease calculation time
- Worked on mechanical design of buildings during all stages of projects from permit to construction
- Coordinated with contractors and manufacturers to ensure smooth construction of projects

Exp Services   **Hamilton, ON**
Mechanical Engineering Student   *May 2018 - Aug 2018*

- Performed load calculations, designed ductwork and stormwater piping for a high-rise condominium
- Created scripts to automate mechanical calculations for large high rises
- Replied to RFIs for ongoing construction projects

General Motors   **St Catharines, ON**
Manufacturing Engineering Student   *Sept 2017 – Dec 2017*

- Decreased cycle time by 3 seconds on bottleneck operation by optimizing tool parameters and NC code
- Designed and supervised the installation of workstation racks for engine assembly line

RB&W Corportation   **Brampton, ON**
Quality Engineering Student   *Jan 2017 – April 2017*

- Created standardized work instructions and process flow diagrams

Mechatronics Vehicle Systems Lab   **Waterloo, ON**
Research Assistant   *May 2016 – Sept 2016*

- Designed and fabricated jig to aid in welding of vehicle chassis

Projects

- **Heat Pump Riser Sizing Tool**: VBA tool to automate sizing for heat pumps in high rise condo
- **Stewart Platform**: A platform that can be manipulated by 6 servos to orient itself in any angle