

# Musleem Naima

Engineer-In-Training (EIT)

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## PROFESSIONAL PROFILE

A meticulous and goal-oriented Engineer-In-Training of a Mechanical Engineering & Management degree with experience working as a Project Applications Engineer. My background in Management and various leadership roles better equip me to work alongside clients and colleagues; offering diligent analytical skills with an aptitude for effective communication.

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## CORE COMPETENCIES

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|--------------------------|--------------------------------------|---------------------------|
| ❖ Mechanical Engineering | ❖ Project Management                 | ❖ Plumbing & Drainage     |
| ❖ Mechanical Design      | ❖ Writing Engineering Specifications | ❖ 3D modelling & printing |
| ❖ CSA, ASME & ASSE       | ❖ Project Estimation/ Quotations     | ❖ Building Safety Codes   |
| ❖ Lean Six Sigma         | ❖ Troubleshooting & Problem Solving  | ❖ DMAIC, FMEA, 5S         |

**IT Proficiency:** AutoCAD, SolidWorks, Inventor, NX Unigraphics, C++/C#, Matlab, Python, SQL, Microsoft Office

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## WORK EXPERIENCE

### Project Applications Engineer

*Allied Technical Services, Scarborough, ON, (Aug 2016 - Present)*

- ❖ Formulated quotes for pumps, plumbing components, drainage, water treatment system, and hot water systems
- ❖ Fast paced work environment with tight deadlines, creating and revising 10-15 quotes, technical submittals, and specifications daily
- ❖ Managing relationships with clients, and co-ordinating meetings with customers
- ❖ Prepared mechanical and architectural design specifications for Engineers, Architects, and Interior Designers
- ❖ Conducted research and evaluated materials and products for compliance with Ontario building codes, CSA, ASME, and ASSE, using CAD software AutoCAD and SolidWorks to enhance the quotations and submittals for Engineers
- ❖ Provided excellent customer support and negotiated with clients to ensure proper budgeting for projects
- ❖ Generated financial estimates to ensure that projects met stipulated budgets, and saved over \$100,000 in project costs
- ❖ Mentored new employees to expand the Engineering Department from 5 to 10 employees within 6 months
- ❖ Created and implemented a scoring system to pin point inaccuracies in quotes, resulting in an increase in team efficiency from 85% to 93% within 6 months

### CAD Draftsman

*Yaya Foods Corporation, Etobicoke, ON, (Apr 2015 - Sep 2015)*

- ❖ Used AutoCAD to revise schematics to include lunchrooms, Quality Control Labs, coolers, and trailer tractor doors
- ❖ Drafted 13 product lines, batching areas with over 20 tanks, shelf pallet racks, plumbing, ventilation, refrigeration, and electric wires, using a laser meter to measure machinery dimensions in a manufacturing environment

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## EDUCATION

### Bachelor of Engineering (Honours), Mechanical Engineering and Management, (Sept 2011 - Apr 2016)

*University of Ontario Institute of Technology (UOIT), Oshawa, ON*

### Key Projects

#### Capstone Project: Nanofiber Electrospinning System, (Sep 2015 - Apr 2016)

- ❖ Led a team through the design and construction of an Electrospinning system to produce nanofibers, managing scheduling, task delegation, develop strategies, and progress monitoring
- ❖ The system is now used by Professors to test for the best conditions to produce the highest quality of nanofiber
- ❖ Designed CAD component models for 3D printing, reducing interference throughout the electrospinning process in using non-conductive materials
- ❖ Eliminated system vibration through CAD development of a double shafted aluminum electrospinning drum, and the execution of Finite Element Analysis to predict vibrations and stress
- ❖ Oversaw quality, conducting testing, identifying defects and managing delivery to exceed expectations
- ❖ Utilized C++ with Arduino in system programming, automating the electrospinner, as well as the ambient controls

#### Autonomous Mine Rescuer, (Jan 2015 - Apr 2015)

- ❖ Designed and built a robot that locates an injured miner autonomously, navigates to their location, safely rescues the miner, and transports the miner to an exit

### Volunteer Experience

- ❖ Event Organizer, UOIT, Orphan Sponsorship Program (OSP), 2015 - 2016
- ❖ Committee Member, UOIT, Animal Rights Collaboration, 2014 - 2015