Ammar Ibrahim

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Skills & Licenses

- **CAD:** SolidWorks (Sheet Metal, Molds, Surface Modelling), AutoCAD
- **Microsoft Office Suite:** Proficient in use of Word, Excel, PowerPoint, Outlook & Teams
- **Programming:** C, Python, HTML
- **Driver's License:** Valid Province of Ontario Class G Driver's License

Work Experience

Production (Machine Shop) Supervisor March.2022 – Present
Romet Ltd. Mississauga, ON

- Supervised 51 team members across 4 shifts, and 17 CNC machines to ensure a safe and productive environment
- Led daily meetings with all machine shop staff to discuss various production issues and assist in removing production bottlenecks.
- Conducted and oversaw training for new and experienced operators to ensure that the right steps are taken with quality, and safety in mind.
- Scheduling parts as per demand, and strategically allocating resources to guarantee production remains inline with the forecast
- Evaluated production needs and made sure that every step of the manufacturing process was carried out efficiently while adhering to the health and safety requirements
- Worked alongside with various suppliers and internal departments to coordinate machine downtime, and the necessary maintenance

Manufacturing Engineering Technologist January.2021 – March.2022
Romet Ltd. Mississauga, ON

- Improved assembly process by refining the build sequence, implementing tools, and material flow process increasing overall capacity by 70%
- Designed a casting porosity leak test fixture to increase inspection efficiency of incoming supplier parts
- Lead all day-to-day maintenance required for the plant as well as scheduling numerous contractors for maintenance work on CNC machines, and other machinery
- Addressed various customer concerns by investigating the root cause, contain the issue in a timely manner, and explore possible escape points in the process
- Worked with suppliers to source various types of industrial equipment's to support production needs, such as, a CNC Lathe, sonic provers, and an ultrasonic welder
- Assisted the purchasing department with sourcing required production components from suppliers and finding alternatives to work around long lead times

Manufacturing Engineering Intern July.2019 – Dec.2019
Recochem Inc. Milton, ON

- Created and modified AutoCAD drawings to optimize automotive fluid manufacturing plant layout
- Designed trend analysis templates for fluid production lines to identify areas of improvement
- Utilized Excel & VBA to design an automated barcode inventory system for part organization
- Performed Root Cause Analysis (RCA) on machinery issues to create troubleshooting procedures

Process/Production Engineering Intern Jan.2018 – Aug.2018
Woodbridge Foam Corp. Woodbridge, ON

- Consolidated all automotive seat mold samples to match company production standards
- Analyzed scrap data for defective seats and organized meetings to ensure problems were communicated

- Performed daily inspections on manufacturing lines to guarantee optimal production parts
- Performed QA analysis on production parts using different tools & fixtures to ensure parts were in-spec

Education

University of Guelph Sept.2015 – May.2020
Bachelor of Engineering, Mechanical Engineering (Co-Op) Guelph, ON

- **CGPA:** 3.68/4.0
- Entrance/Bob & Nancy Scholarships | Dean's Honour List for 7 Semesters
- **Relevant Courses:** Machine Design, Computer Aided Design (CAD), Manufacturing, Material Science

University of Michigan (Coursera & Udemy)

- Programming for Everybody 2020
- Python Data Structures 2020
- Using Python to Access Web Data 2020
- The Web Developer Bootcamp Present

Technical Experience

Lead Designer Jan.2020 – May.2020
University of Guelph Guelph, ON

- Modelled velomobile shell using SolidWorks to evaluate high impact stress points through ANSYS
- Reiterated design to assess possible solutions and determine the best possible design configuration
- Communicated project progress alongside team to the project manager through weekly presentations

Transmission Designer Sep.2017 – Dec.2017
University of Guelph Guelph, ON

- Designed and built the automated fertilizer spreader's propulsion transmission using a chain drive
- Modelled fertilizer spreader assembly on Solidworks to assess functionality prior to prototyping phase
- Machined transmission shaft using a lathe according to Solidworks CAD model dimensions/specification