# Arman Shariff

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## Education

**University of Waterloo** Sep. 2020 – May 2025
*Bachelor of Applied Science in Mechanical Engineering* *Waterloo, ON*

## Experience

**ATS Industrial Automation** May 2024 – Aug. 2024
*Automation Design & Applications Engineering* *Vaughan, ON*

- Created 100+ mechanical models using SolidWorks resulting in $2M in sales of automation equipment.
- Supported product quality processes (APQP) by developing design proposals aligned with customer budgets, cycle time requirements, manufacturability, and compliance standards.
- Contributed to design feasibility analysis (DFMEA) and cost reduction activities by identifying and mitigating potential failure modes during proposal development.

**Toyota Motor Manufacturing** Sep. 2023 – Dec. 2023
*Press/Stamping Engineering Analyst* *Cambridge, ON*

- Designed and installed a pillow block assemblies to support a drive shaft preventing 130+ min of downtime a year.
- Performed root-cause analysis to eliminate quality defects by adjusting hydraulic controls, roller speeds, and identifying backlash in gear assemblies.
- Researched the impact of steel surface roughness on the likelihood of part failures resulting in new quality requirements for steel suppliers.

**Woodbridge Foam Corporation** Jan. 2023 – Apr. 2023
*Mechanical Engineering Intern* *Mississauga, ON*

- Developed a digital accountability dashboard using PowerBI and Power Automate to track the hydraulic oil cleanliness of 42 manufacturing facilities.
- Researched the impacts of varying check valve cracking pressures in hydraulic logic circuits on cycle-time and equipment longevity.
- Improved equipment longevity by working with hydraulic distributors to conduct root-cause failure analysis resulting in a 15% increase in equipment life.

**Mondelez International** May 2022 – Aug. 2022
*Preventative Maintenance Engineering* *Toronto, ON*

- Implemented a new calibration program that improved calibration completion by 60% withstood the scrutiny of a food and safety (FSSC) audit.
- Used SAP to support the maintenance department by creating preventative maintenance plans for equipment in the factory based on feedback from mechanics and electricians.
- Created BOMs and validated hundreds of equipment information to create an equipment hierarchy in SAP.

## Projects

**Senior Capstone Project** | Portfolio Sep. 2024 – May 2025

- Designed and fabricated a rotary fatigue tester to generate material S-N curves, which reduced cost by 80%.
- Manufactured a test stand, motor shaft, and drive assembly with aluminum and wood components using a band saw, lathe and drill press.
- Utilized rapid prototyping technology, including Arduino and 3D printing, to iterate design concepts.

**Conveyor Design Challenge** | Portfolio Jan. 2024 – May 2024

- Used SolidWorks to design a mechanism which moves a cube in the x-y-z and meets several design constraints.
- Manufactured components using woodworking tools and 3D printers.
- Created engineering design reports and presentations resulting in an overall grade of 87%.

## Skills

**Software**: AutoCAD, SolidWorks, MATLAB, Ansys, Python, C++, Java, PowerBI
**Mechanical**: 3D Printing, Machining, Woodworking, Arduino
**Languages**: English, French