

Erika Narimatsu

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Education

University of Toronto

BACHELOR OF APPLIED SCIENCE

Sep 2019 – Apr 2023 (exp)

- Third year in mechanical engineering major with specializations in mechatronics and bioengineering
- Courses (current and past) include:
 - Kinematics and Dynamics of Machines
 - Solid Mechanics 1
 - Material Science
 - Engineering Analysis

Work Experience

BulkBarn

SUPERVISOR

Jun 2021 – Sep 2021

- Conducted end-of-day accounting and created financial reports
- Oversaw operations within the store by preparing schedules, delegating tasks to staff, and updating store signage
- Ensured customer satisfaction by ensuring store hygiene and product quality, processing refunds, and responding to customer complaints

CASHIER

Jul 2020 – Jun 2021

S.J. Lye Lab

RESEARCH INTERN

Jul 2019 – Aug 2019

- Aided members of the laboratory in testing/data analysis for research in maternal/fetal health and prevention of preterm labour
- Conducted plasmid DNA extraction using QIAGEN MaxiPREP and MiniPREP kits
- Reorganized and updated the lab's chemical and biological materials inventory

Extracurriculars

Robotics for Space Exploration

MECHANICAL LEAD

Aug 2021 – Present

- Spearheaded weekly meetings with the mechanical subteam and executive body to approve mechanical designs and ensure that deadlines are met
- Conducted recruitment and training of new members in mechanical design, CAD and FEA
- Communicate with external companies for manufacturing, sponsorships, and donations

JUNIOR MECHANICAL LEAD

Sep 2020 – Aug 2021

GENERAL MEMBER

Sep 2019 – Sep 2020

Hardhat Cafe

OPERATIONS EXECUTIVE

Jul 2021 – Present

- Ensured appropriate sanitization/food safety measures are implemented within the store and re-arranged store layout to accommodate for COVID-19 protocols
- Monitored product sales by analyzing sales data
- Assisted managers in preparing invoices, placing orders, and making payments

Skills

Mechanical Design

SOLIDWORKS
Fusion360
ANSYS
Fabrication and machining

Programming

Java
Python
HTML & CSS
MATLAB

Soft skills

Project management
Communication
Decision making

Projects

ANSYS Workshop

Curated and presented a workshop on the basics of finite element analysis and ANSYS for members of the Robotics for Space Exploration design team.

Backplane Enclosure

Designed an electrical enclosure for a Mars Rover to protect circuit boards from sand and debris while providing ease of access and organization, using SOLIDWORKS sheet metal design.

Ball valve assembly system

Designed an assembly system for a quarter turn ball valve in MIE221 (Manufacturing Engineering). Gained understanding of manufacturing processes and current technologies.

FDM Printer Design

Used SOLIDWORKS to create CAD models, and applied classroom concepts to design an FDM 3D printer for professional engineering prototypes in MIE243 (Mechanical Engineering Design).

[See all projects](#)