

Erika Narimatsu

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Education

University of Toronto

BACHELOR OF APPLIED SCIENCE, MECHANICAL ENGINEERING

Toronto, Ontario

Sep 2019 - Apr 2023 (exp)

COURSE DESIGN PROJECTS

- Design of an FDM 3D printer in MIE243 (Mechanical Engineering design)
- Design of Temperature Regulation System using Muse S in APS112 (Engineering Strategies and Practices II)
- Team leader for design of Accessible Ferry Ramp in APS111 (Engineering Strategies and Practices I)

Skills

Programming Proficiency in Java and Python; experience in HTML, CSS and MATLAB

Computer Aided Design Proficiency in SOLIDWORKS (CSWA certified), Fusion 360

Other Proficiency in ANSYS, Minitab

Experiences

Robotics for Space Exploration

University of Toronto, Toronto, Ontario

JUNIOR MECHANICAL LEAD

Sep 2020 - Present

- Design of carbon-fiber rocker bogie, increasing durability and decreasing weight
- Recruitment, training, and organization of weekly meetings for the mechanical sub team
- Oversee design and fabrication of drive mechanisms for a Mars rover, such as wheels, gearboxes, differential bar, and chassis
- Communication and outreach to external companies for sponsorship of parts and services

GENERAL MEMBER

Sep 2019 - Sep 2020

- Redesign of battery bay for faster battery exchanges and sturdier mounting of the high-power circuit board
- Fabrication and assembly of mechanical components, including the rocker bogie. chassis and gearboxes

FRC Robotics Team 6135: Arctos

Bloor Collegiate Institute, Toronto, Ontario

CO-CAPTAIN

Sep 2017 - Jun 2019

- Oversaw all fundraising, sponsorship and outreach activities as Co-Captain in 2019 season
- Spearheaded redesign of robot chassis using dual-speed gearboxes
- Involved in competition "pit crew", managing all repairs and subsystem checks before matches
- Nominated by team as Dean's List candidate for contributions to the team and FIRST community

GENERAL MEMBER

Sep 2015 - Sep 2017

Work

Bulk Barn

2 Carlton St., Toronto, Ontario

CASHIER

Jul 2020 - Present

- Accurately identified and weighed bulk food products for entry into Point of Sale (POS) system for payment processing
- Maintained cleanliness and organization of product bins, counters, shelves and washrooms
- Refilled coffees, teas, spices and packaged goods
- Assembled online orders for curbside pickup

S.J. Lye Lab, Lunenfeld Tanenbaum Research Institute

60 Murray St., Toronto, Ontario

SUMMER STUDENT

Jul - Aug 2019

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

University Settlement Recreation Center

23 Grange Rd., Toronto, Ontario

DAY CAMP STAFF

Mar 2019, Jul - Aug 2018, Jul - Aug 2017

- Supervised 4-5 year old children in day to day activities, including swimming and off-site excursions
- Organized crafts and activities
- Prepared snacks and distributed lunches