

# RITA SUN

(647) 702-9116 • r89sun@uwaterloo.ca • [linkedin.com/in/rita-sun/](https://www.linkedin.com/in/rita-sun/)

## SKILLS

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**Languages:** HTML, CSS, JavaScript, Python, C++

**Tools:** Figma, Canva, Notion, Miro, Wix, Excel, GitHub, GitLab

## EXPERIENCE

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### Mantecon Partners Inc.

Sep. 2023 - Dec. 2023

*Mechanical Design Intern*

Hamilton, ON

- Drafted and issued HVAC drawing plans for 15+ projects using AutoCAD and Revit, resulting in 95% client satisfaction
- Designed two ductwork layouts using airflow calculations, ensuring proper air distribution under industry standards
- Conducted 4 site visits, improving accuracy of construction by 20%, documenting 12 concerns, and making 2 adjustments
- Collaborated closely with electrical and structural teams to integrate all designs and systems, minimizing design conflicts

### 416 Automation Inc.

Jan. 2023 - Apr. 2023

*Mechatronics Engineering Intern*

Mississauga, ON

- Led a 5S project and designed 30+ in-office visual aids on Canva to promote lean thinking, optimizing the work environment
- Implemented a design system within the company by creating internal style guides to ensure consistency in visual aids
- 3D printed 30+ prototypes/custom parts and troubleshoot print defects, improving overall print quality by 75%
- Automated documentation processes in Google Sheets using 2 macros with Google Apps Script, saving 3 hours/week

## PROJECTS

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### Portfolio Website | [ritasunportfolio.netlify.app](https://ritasunportfolio.netlify.app)

HTML, CSS, JavaScript, Canva

May 2024

- Developed a website using HTML, CSS, and JavaScript to display my UX/UI portfolio
- Created custom images for the website using Canva to ensure visual cohesiveness and boost user-engagement

### Zara Redesign

Canva, Figma, Miro

Apr. 2024

- Executed an unsolicited redesign of the Zara website leveraging Canva and Figma to create improve user-experience
- Conducted user research through social media platforms to identify pain points of the online shopping experience

### MorseLink | [devpost.com/software/morselink](https://devpost.com/software/morselink)

SOLIDWORKS

Feb. 2024

- Created a slide deck using Google Slides to detail the functions of MorseLink and successfully pitch our product to the judges
- Modelled a prototype of accessible glasses using SolidWorks for MakeUofT, getting recognition from judges and peers for its innovative design and commitment to accessibility

### Stud-E Bot

Lego EV3, RobotC, & SOLIDWORKS | [sites.google.com/view/stud-e-bot/home](https://sites.google.com/view/stud-e-bot/home)

Dec. 2022

- Designed slides using Google Slides to effectively communicate the process of Stud-E's creation to our audience
- Programmed and tested different 2 study modes for the robot using RobotC, Visual Studio Code, and Git

### Arduino Website

Arduino, HTML & CSS | [rita-sun.github.io/ArduinoWebsite/](https://rita-sun.github.io/ArduinoWebsite/)

Jul. 2022

- Developed a custom website utilizing HTML & CSS to showcase my Arduino projects
- Designed a custom logo for the website using Canva to enhance brand-identity throughout the website

## LEADERSHIP EXPERIENCE

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### Baja SAE

May 2023 - Aug. 2022

*Chassis Team Member*

Waterloo, ON

- Machined custom spacers for the rear suspension of the chassis, reading engineering drawings to achieve accurate dimensions
- Attended weekly meetings and worked with members to create an off-road vehicle, competing in the Baja SAE Oregon event

## EDUCATION

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### University of Waterloo

Sept. 2022 - Present

*Bachelor of Applied Science - BAsC, Honours Mechatronics Engineering*

Waterloo, ON

- GPA: 4.0/4.0