

RITA SUN

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SKILLS

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

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

EXPERIENCE

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

Portfolio Website |

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 | <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 | <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 | <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

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

University of Waterloo

Sept. 2022 - Present

Bachelor of Applied Science - BAsC, Honours Mechatronics Engineering

Waterloo, ON

- GPA: 4.0/4.0