

Arnav Dalmia

Oakville, ON, Canada

☎ 647 889 5664 | ✉ a4dalmia@uwaterloo.ca | 🌐 www.arnav.dalmia.me | 📷 ArnavDalmia | 🌐 arnav-dalmia

Summary

Current student at The University of Waterloo studying Systems Design Engineering. Interested in devising a better problem-solving method for challenging tasks, and learning new technologies and tools if the need arises. **Skills** include:

Tools/Technologies : IOS, MS Office, SOLIDWORKS, MATLAB, WPI Robotics, Github, VS Code, Eclipse, Notepad++

Languages : Python, Java, HTML, CSS, Bootstrap Framework, studying C++ and SQL

Work Experience

Paceline Overhead Conveyors

Mississauga, ON

ASSEMBLY TECHNICIAN INTERN

July. 2023 - Aug. 2023

- Operated **various industrial machinery** (angle grinder, welder, drill press, band saw, jig saw, automatic and semi-automatic saws, etc.) for construction of **company work orders** (such as HSS Stands and Conveyor Trolleys)
- Received and executed work orders for **20+ company clients** in an industrial setting (including Walmart)
- Proficiently **manufactured and assembled** conveyor components, including take-up units, from industry standard **part drawings**

Self-Employed

Oakville, ON

WEB DEVELOPER

Jan. 2022 - July. 2023

- Engaged in **direct client communication** to gather and comprehend website requirements, including the implementation of **responsive contact forms** with email functionality
- Designed websites using **HTML** and **Bootstrap CSS Framework**, utilizing industry-standard tools such as **Brackets** and **VS Code** for efficient development.

MedLet

London, ON

CO-FOUNDER, CTO, AND LEAD ENGINEER

July 2022

- Co-founded MedLet at the **SHAD Western Design Competition**, securing **1st place** out of 10 teams and 100 participants with the innovative concept of Medlet
- Designed the MedLet bracelet using **SOLIDWORKS**, ensuring its functionality and aesthetics met the desired standards
- Programmed the MedLet bracelet using **Python, NFCpy API, and NFC Tools** to enable it to store and transmit essential emergency information securely through an embedded NFC chip
- Developed the company's website and user interface (UI) using the **Bootstrap Framework and HTML**, ensuring a user-friendly experience for customers
- Conducted thorough **market research** and **analysis** to identify the competitive advantages of MedLet within the **child safety** and emergency information **sector**

FRC Team 1325 Inverse Paradox

Mississauga, ON

TEAM LEAD - ELECTRICAL, STRATEGY, AND PIT OPERATIONS

Sep. 2021 - Jun. 2023

- Served as the **Electrical Lead**, responsible for instructing team members on the intricacies of electrical components within our robot
- Led as the **Strategy Lead**, overseeing the entire team in data collection, analysis, and strategy formulation, contributing to our consistent success in competitions
- As the **Pit Boss**, maintained open communication with FRC officials and ensured our team's presence and reputation were respected in the pit area, contributing to our widespread recognition
- Through effective leadership in these roles, our team achieved remarkable success, including multiple awards such as the prestigious Engineering Excellence Award on both a global and district level.

Honors & Awards

- | | | |
|-----------|---|-----------------|
| 2022 | Winner , SHAD Western Design Competition | Western, ON |
| 2023 | Winner , TD Achieve the Dream scholarship | Canada |
| 2021-2023 | FRC Team 1325 Member/Lead , Excellence in Engineering Award, District Winner throughout various events | North America |
| 2022 | Top 10 , Orals AAM Regional, DECA | Mississauga, ON |
| 2022 | Top 25 Percent , University of Waterloo - Euclid Math Contest | Mississauga, ON |