

Abigail Adam

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Education

Bachelor of Applied Science, Engineering Physics - University of British Columbia

GPA: 86% | Dean's List | Expected Graduation: May 2028

Summer Program – Harvard University

GPA: A | June-August 2022

Skills & Abilities

Engineering Design | Fusion360 | AutoCAD | MATLAB and Simulink | C | C++ | Arduino | Java | Applied Mathematics | LaTeX | KiCAD | Soldering | Technical Writing

Technical Experience

Summer Research Student | Technion, Faculty of Physics | 2024

- Participated in the International Undergraduate Summer Research Program, and worked with the High Energy Physics Group, supervised by Professor Yotam Soreq
- Analyzed electrical and mechanical functioning of instruments used in high energy physics to evaluate their relevance to Dr. Soreq's research

Designer Co-op | Jablonsky Ast & Partners | 2025

- Performed an in-depth analysis of top-down construction, a method for building skyscrapers yet to be adopted in Canada, and pitched my conclusions directly to senior partners
- Helped develop models to predict rebar consumption on large projects to assist in more accurate budgeting

Agroponics | Design Team | 2024 – present

- Assisted in the creation of an automated hydroponic system, specifically working on implementing a server using MQTT communication to interface between sensors, microcontrollers, and actuators

Projects and Coursework

Exoplanet Characterization | The Life and Death of Stars Cumulative | 2022

- Characterized a distant binary stellar system (ID 253990973) using data from the Transiting Exoplanet Survey Satellite (TESS) using EXOFAST v2 and wrote a technical paper on my findings

Autonomous Robot Competition | Coursework | 2025

- Created an autonomous robot for ENPH 253, including designing the robot's electrical systems (PCBs, power distribution) and making libraries to interface with several sophisticated sensors in C++