

Abdualhakim Aldabibi

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Education

BASc Mechanical Eng. and BSc Computing Tech., University of Ottawa

Sep 2024 – Present

- Expected graduation: Summer 2029
- Relevant coursework: Mechanical Engineering, Intro to Computing II, Technical Report Writing, Thermodynamics I, Engineering Materials I
- CGPA: **8.3/10**
- Dean's Honour List (Fall 2024 – Present)

Ontario Secondary School Diploma, Colonel By Secondary School

Nov 2020 – June 2024

- Cumulative Average: 90%
- Executive, Junior Achievement Club (Grade 12)
 - Organized events, performed administrative tasks, and served as **VP of Health & Safety**
- Silver Medal Award, Ottawa-Carleton District School Board

Projects

Reverse-Engineering Modelling - Commercial Lamp, MCG1100

Sep 2025 – Dec 2025

- Conducted reverse-engineering of a commercial desk lamp; measured key dimensions with calipers and digitized them in SolidWorks.
- Modelled all components, created a fully mated assembly and produced detailed part drawings plus an exploded-view assembly drawing.
- Applied **industry-standard CAD practices** (fully defined sketches, proper mate hierarchy, and design intent).

Energy-Efficient Residential Product - AirGate, GNG1103

Sep 2025 – Dec 2025

- Developed a **smart vent register** for residential buildings as part of a five-member engineering team.
- Designed a sensor-pod housing and motor mount in SolidWorks, optimizing geometry for a favourable strength-to-weight ratio.
- 3D printed components on an Ultimaker 3; achieved a friction-fit assembly without additional fasteners.
- Integrated temperature and humidity sensors to enable **autonomous slat actuation**.
- Authored many comprehensive design reports, detailing design rationale, test methodology, and iteration outcomes.

Experience

Engineering and Science Laboratory Experience, University of Ottawa

Sep 2024 – Present

- Performed routine chemical analyses (CHM1311) and physics experiments (PHY1122), adhering to WHMIS and lab-safety protocols.
- Assisted peers with SolidWorks modelling tasks for MCG1100 projects, reinforcing CAD best practices.
- Gained hands-on machining experience through **CEED workshops** and the GNG1103 course.

Dairy/Freezer Associate, Walmart Canada

Aug 2023 – Present

- Maintain optimal product presentation and freshness by rotating stock according to **FIFO** (first-in-first-out) guidelines, conduct daily temperature checks, and promptly remove expired or damaged items.
- Deliver excellent customer service by assisting shoppers with product inquiries, locating items, and recommending complementary purchases.
- Support inventory accuracy and **loss prevention** through regular cycle counts, precise receipt of shipments, and diligent documentation of shrinkage.

Technical Skills

- CAD/Design: **SolidWorks, Onshape, TinkerCAD**
- Programming: **HTML, CSS, JavaScript, Java, C++, Python**
- Tools: **Linux, LibreOffice, Typst**