# Hudson Bolduc



**Cell** 905-330-6071 **Email** HudsonBBolduc@Gmail.com

## SUMMARY

Second-year Architectural Technology co-op student (GPA 3.8/4.0) with a background in Mechatronics & Robotics Engineering from Queen's University. Hands-on experience in architectural drafting, construction detailing, estimating and 3D modelling, with designs built around the Ontario Building Code, accessibility standards and sustainable design principles. A dependable team player with mentoring and leadership experience, ready to contribute to drafting and documentation on real projects.

## EDUCATION

**Architectural Technology**
Advanced Diploma, Co-op · GPA 3.8/4.0
**Sheridan College**, Hazel McCallion Campus
Sept 2025 – Dec 2027

**Bachelor of Applied Science**
Mechatronics & Robotics Engineering
**Queen's University**, Kingston, ON
Sept 2023 – Apr 2025

## SKILLS

**Design & Drafting**
AutoCAD, Revit (learning), SketchUp, SolidWorks, Tinkercad, Blender

**Building Knowledge**
Residential & commercial structures, Ontario Building Code, estimating, model making

**Software**
Microsoft Office Suite, Adobe Creative Suite

**Programming**
C, Arduino C

**Relevant coursework:** Architectural CAD · Residential & Commercial Materials, Systems and Detailing · Architectural Studio (Residential & Commercial) · Architectural Estimating · Architectural Health & Safety

## ACADEMIC PROJECTS

**Residential Home Design** · ARCH 28544, Architectural Studio 2

- Designed a code-compliant 4-bedroom, 3.5-bath family home that fit the constraints of an existing lot and the style of the surrounding neighbourhood.
- Created a functional, cohesive layout compliant with the Ontario Building Code (OBC), working through zoning limits and real-world site constraints.
- Estimated the home's construction cost and laid out essential services, including plumbing, HVAC and electrical.

**Wood Frame Construction** · TECH 16214, Building Materials 1

- Built a detailed scale model of the wood framing for a two-storey home, following OBC requirements throughout.
- Included a gable roof, dormer, foundation and staircase to show key residential construction details.

**Residential Detailing** · ARCH 17991, Architectural Residential Detailing

- Produced a complete residential wall section from foundation to roof, to OBC requirements and industry standards.
- Fully annotated and dimensioned the drawings to clearly communicate construction details.

**Ride Share Algorithm** · Data Structures and Algorithms

- Wrote an original C algorithm that maximized driver revenue by grouping passenger rides by pickup and drop-off location for the most fuel-efficient routes; delivered a well-received presentation and report.

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## RELEVANT EXPERIENCE

**Halton District School Board** · Burlington, ON — June 2026 – Aug 2026
Summer Student, Indigenous Rights & Education Department

- Camp counsellor for Indigenous children ages 5–8, supporting educational outings and activities focused on nature, culture and history.
- Teaching assistant for a summer program for students in Grades 8–11, supporting lessons on Indigenous knowledge, culture and learning.
- Reviewed videos on Indigenous topics to flag content that could be misleading, culturally insensitive or inaccurate.

**Print Three** · Vaughan, ON — May 2024 – Aug 2024
3D Printing Technician

- Created detailed, functional 3D models in SolidWorks and Blender that met project specifications and manufacturing standards.
- Diagnosed and fixed common 3D printing problems, including filament jams, layer misalignment and calibration errors.
- Produced high-quality prototypes efficiently and helped streamline shop workflow.

## VOLUNTEER EXPERIENCE

**Hockey Cares** · Oakville, ON — June 2017 – Present
Fundraising and Outreach Volunteer

- Take part in fundraising for a charity that fosters positive cultural exchange between Indigenous and non-Indigenous youth through a shared love of hockey.
- Travelled to Attawapiskat, gaining first-hand experience in promoting reconciliation and education.

**Q-AISES** · Queen's American Indian Science and Engineering Society — Sept 2023 – Apr 2025
Payload Sub-Team Member, Queen's University

- Collaborated to design and build the rocket's payload for the annual NASA rocketry competition.
- Contributed CAD modelling, programming and engineering report writing to the team's success.

## AWARDS & CERTIFICATIONS

**Wasmund Scholar** — June 2023

**I-STEM Certification** — June 2023

**Health and Safety Awareness Certification** — Feb 2024

**Recreational UAS (Drone) Safety Test** — Apr 2024

**WHMIS 2025 Certification** — Apr 2026