

Howard Wen

(403) 890-5086 | hwen46@uwo.ca | in: [howard-wen04](#)

EDUCATION

Western University & Ivey Business School

London, ON

BESc in Mechatronic Systems Engineering & Honours Business Administration

Expected Apr 2027

- **GPA:** 3.91 / 4.0; **Honours:** Jon and Nancy Love HBA Award (\$14,600), Dean's Honour List (2023-25), Western Scholarship of Excellence (\$8,000), Alexander Rutherford Scholarship (\$2,500)

WORK EXPERIENCE

Boston Consulting Group (BCG)

Calgary, AB

Summer Associate

Jun 2025 – Aug 2025

- Conducted analysis for a strategy initiative with a major North American midstream operator on commercial levers (e.g., digital & AI, trading, LCPM, cost) and portfolio strategy to address a \$XB near-term EBITDA gap
 - Spearheaded module modelling estimates for potential trading uplift of roughly \$XXXM using firm's historical marketing performance, BCG trading resources, and internal director and partner expertise
- Supported midstream business development, modelling expected capital expenditure on next decade North American midstream infrastructure; analysis on headwinds and opportunities featured in BCG-published article
 - Developed a 150-slide reusable proposal pack for BCG energy teams, consolidating partner discussions into playbooks, standardizing internal thought leadership, and enabling tailored client conversations

Northern Hail Project

Olds, AB

Field Operations Intern

May 2024 – Aug 2024

- Conducted severe hailstorm interceptions to collect hailstone data via UAVs and manual methods, while maintaining and calibrating field instrumentation to ensure operational reliability in extreme weather conditions
- Led prototype development on a hail velocity measurement instrument by designing weather resistant enclosures and programming sensor software, providing new data collection techniques with 30k+ data points

ArenaPetro

Beijing, CN

Software Developer Intern - Embedded Systems

May 2023 – Jul 2023

- Assisted development of data visualization software to expedite instrumentation prototyping for well-logging technology, resoldering faulty wiring in two devices and debugging software; saved staff over 25 hours of work

EXTRACURRICULAR EXPERIENCE

Arcadian Research & Contracting Ltd.

London, ON

Founder and Managing Partner

Sep 2024 – Present

- Founded ARC, an engineering firm that helps academics and researchers develop software, prototypes, and instrumentation at Western University, filling a skill gap to expedite research goals.

Select Project Experience (Total Value: \$10.5k)

- **Instrumented Ground Level Observer Of Hail for the Canadian Severe Storms Laboratory (CSSL)**
 - Developed a continuous waveform radar-based instrument, recording hail terminal velocities and auxiliary environment data to gather better data on hail distribution for forecasting models and climate resiliency
 - Shipped four bespoke units for a multimillion-dollar US research initiative, collecting real-time hail data
- **Aggregate USA Farm Perimeter Software for Free Appropriate Sustainability Technology Group (FAST)**
 - Created modular software that analyzes GIS data from NASS's crop sequence boundaries, decomposing it into separate shapefiles by state, and calculating total raw and dissolved perimeter of polygons for FAST

Western Engineering Competition

London, ON

VP Competitions

Sep 2022 – Jan 2025

- Oversaw hiring for competition directors and planning of competition categories to create appealing topics and formats, resulting in challenging and engaging competitions with over 400 participants across all categories

SKILLS, ACTIVITIES & INTERESTS

Skills: Python, React.js, C, Java, Arduino, MongoDB, SolidWorks, 3D Printing

Activities: IEEE VP Operations, Ivey Consulting Club Mentor, Engineering Orientation Week Leader ("soph")

Interests: Skiing, Reading, Avant-Garde Fashion, Chopin, Experimental Cooking