



Gordon McGinn

Engineering Co-op
Student

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Professional summary

Mechanical Engineering student with over 3 years of hands-on experience in high-performance environments, specializing in team leadership and safety management. Proficient in SolidWorks, Arduino, and technical communication, with a keen interest in materials science and mechanical systems. Demonstrates a results-driven approach to project coordination and risk mitigation, eager to apply skills in innovative design and engineering solutions.

Employment history

Apr 2024 - Aug 2025

Foreman, Next Generation Reforestation

Beaverlodge, Alberta

- Led a rotating crew of 6-14 tree planters daily, maintaining high quality standards through regular coaching, performance feedback, and follow-ups.
- Managed job site operations, intra-team co-ordination, troubleshooting, transportation, and resource allocation.
- Monitored and enforced safe work practices, initiating stop-work conditions as required to ensure compliance with safety standards.
- Served as Advanced First Aid Lead Attendant – performed primary assessments, injury management, follow-ups, and documentation.
- Led camp-wide first aid and emergency response drills; collaborated with physiotherapy staff and Joint Health and Safety Committee (JHSC) to reduce incident severity and develop proactive risk mitigation strategies.

Dec 2022 - Oct 2023

Construction Laborer, Midwest Pipelines Inc.

Calgary, Alberta

- Assisted excavation, mitigating risks and ensuring safety compliance on large-scale projects.
- Optimized equipment setup and maintenance, enhancing site efficiency and operational flow.
- Facilitated cross-trade collaboration, gaining insights into infrastructure planning and risk assessment.

Education

Sep 2024 - Present

Bachelor of Applied Science in Mechanical Engineering (Co-op)

University Of Ottawa, Ottawa, ON

- Project manager for 2 consecutive design teams, guiding projects through the engineering design process to:
 - Develop an API-integrated security software using Python (geofencing, object recognition, and database management).
 - Design a weightlifting hook-and-brace apparatus addressing ergonomics, durability, and ease of use.
- Proficient in SolidWorks CAD, FEA, and technical documentation; replicated complex assemblies to tolerance (e.g., OLFA Box Cutter).
- Exposure to thermodynamic systems, kinematics, and advanced calculus for modeling solid and particulate systems.

Sep 2016 - Apr 2021

Honours Bachelor of Science in Human Kinetics

University Of Guelph, Guelph, ON

- Course exposure to lab techniques such as chemical titration, pipetting, centrifugation, dissection, electromyography, electrocardiography, pulmonary testing, &c.
- Strengths in scientific writing, quantitative research methods and knowledge translation.
- Roles in senior year group projects demonstrate strength within co-operative environments.

Skills

SolidWorks

Skillful

Arduino

Beginner

3D Printing

Skillful

MS Suite

Experienced

Mathematics

Skillful

Thermodynamics

Skillful

Technical

Communication

Experienced

Languages

English

Native

French

Proficient

Additional information

Awards & Distinctions

- 1st Place – uOttawa ESS Junior Design Category, Seismic Structures (2025)
- 2nd Place – Advanced Networks, 1st Year Category, Fall Design Day (2024)
- OCAA All-Academic Student Athlete; Team Bronze – Men's Cross Country (2022)
- OUA Academic Achievement Award (2020, 2021)
- Ontario Scholar (2016)