

# John Hodgins

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## Highlight of Qualifications

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- Completed two years in Civil Engineering with emphasis on environmental systems, geotechnical analysis, and construction materials. Eligible for a 4-month co-op spring 2025
- Directed a student-led filtration prototype project involving water treatment media selection, flow rate analysis, and performance testing
- Advanced skills in MS Excel (pivot tables, conditional formatting) and Word (style guides, template creation) for engineering reporting
- Holds a valid drivers license and access to a reliable vehicle

## Education

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### Bachelor of Engineering Co-op (BEng) | Civil Engineering

2023 – 2028

McMaster University

- Relevant courses: Fluid Mechanics, Statics & Mechanics of Materials, Engineering Geology, Structural Mechanics, Survey & Measurement for Transportation & Construction, Environmental Engineering

## Projects

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### Wastewater Filtration System | First Year Engineering Course Design Project

Jan – Feb 2025

- Collaborated with 4 other students to design a filter for treatment of microplastic contaminated effluent
- Performed materials selection using GRANTA EduPack, choosing the best materials that met objectives and constraints of cost efficiency and environmental footprint
- Conducted life cycle analysis and eco audit to reduce environmental impact of the final filter
- Performed administrative duties, ensuring all team deadlines and milestones were met successfully

## Extracurricular Activities

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### McMaster Engineering Welcome Week Representative | McMaster University

Sept 2025 – Present

- Represented McMaster Engineering throughout welcome week activities and initiatives, highlighting communication skills among first year students
- Collaborated with 50+ representatives to plan and execute multi-day events, showing strong project management and teamwork skills in fast-paced settings
- Facilitated live events for 900+ new students to foster strong community within the student body

### Team Member | McMaster University Seismic Design Team

Sept 2024 – Present

- Developed and analyzed structural models to simulate seismic responses using ETABS software
- Designed and optimized building components to enhance earthquake resilience and meet competition criteria and specifications
- Conducted dynamic analysis and performance evaluations to comply with seismic design standards
- Collaborated with all sub-teams to integrate architectural, structural, and geotechnical aspects

## Skills

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**Software** | Autodesk Inventor, SolidWorks, Revit, ArcGIS, ETABS, SAP2000, ANSYS, Granta EduPack, Python, Excel, MS Office, GSuite