



Hussein Robah

B.Tech, C.Tech, BCIN, GSI

Structural Designer

OFFICE

Burlington

EMAIL

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CONTACT

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Hussein is a structural designer and forensic investigator. He is a registered building code designer in Building Structural, Large and Small Buildings with the MMAH and a certified engineering technician with the OACETT. Hussein holds a bachelor's degree from McMaster University, and he is currently a Master of Engineering candidate at the University of Toronto in Structural & Forensic Engineering. Hussein currently specializes in structural and building envelope investigations, and the design of structural repairs.

He is also experienced in structural and architectural design and building information modelling. He specializes in creating structural and architectural drawings using Autodesk REVIT, as well as preparing structural plans and performing calculations for wood, steel, and concrete structures. Hussein has comprehensive knowledge of the Canadian Building Codes and Standards.

EDUCATION

University of Toronto

Master of Engineering in Structural & Forensic Engineering
Toronto, Ontario, Canada
In Progress

McMaster University

Engineering Bachelor of Technology, Civil Engineering Infrastructure Technology
Hamilton, Ontario, Canada
2025

Seneca College

Civil Engineering Technology, Ontario Advanced Diploma
Toronto, Ontario, Canada
2020

PROFESSIONAL REGISTRATION & LICENSING

Registered Building Code Designer BCIN #113520:

- Building Structural
- House
- Small Buildings
- Large Buildings

CERTIFICATIONS

- Certified Engineering Technician with the Ontario Association of Civil Engineering Technicians and Technologists (OACETT), Since 2024
- Gold Seal Certified Intern in Project Management with the Canadian Construction Association (CCA), Since 2019
- Business Management Certificate from Mohawk College, 2025
- Autodesk Certificate in Civil Engineering
- OHSA Supervisor Health & Safety Awareness Certificate
- IHSA Working at Heights Supervisors Certificate

PROFESSIONAL EXPERIENCE

Structural Designer and Forensics Investigator

OCI Group (Formerly Origin and Cause Incorporated)

Burlington, Ontario

January 2023 — Present

- Interpret field notes, sketches and data from engineers and investigators to create design drawings for rebuild of damaged buildings
- Perform field verification and measurements and accurately transfer this information to the drawings
- Prepare formal engineering plans, drawings and procedural documentation as required by building departments
- Create plans in accordance with applicable codes in correspondence with standards relevant to design specification
- Prepare details for individual structural members and connections
- Provide project drafting and be accountable for schedule and efficiency
- Perform quality control and field dimensional checks to confirm items are built in accordance with drawings, document control
- Conduct site observation and/or inspection activities during design or construction phases of the project
- Liaise with contractors, design professionals, district staff and city inspection authorities for the purpose of coordinating projects, project design, costing and obtaining permits

Truss Designer, Alpa Roof Trusses

Alpa Lumber Group

Stouffville, ON

January 2022 — January 2023

- Review architectural and structural plans to create Roof Truss layouts using Mi-Tek Sapphire software in 2D & 3D
- Design and examine roof trusses using Mi-Tek Engineering Software
- Apply structural analysis methods and calculate/determine loads
- Review, manage and co-ordinate sub-contracted projects
- Coordinate with architects/engineers as required regarding project requirements
- Coordinate with in-house engineers and production department regarding

- manufacturing limitations and possible structural failures
- Generate pricing and quotes for projects

Structural Designer (Revit/BIM)

Yej Studio & Consulting Inc.

Markham, ON

December 2018 — December 2021

- Create existing industrial & residential plans in preparation for design using Autodesk REVIT (Structural & Architectural)
- Prepare Structural plans and Structural Calculations using CSD iStruct Software for Wood Framing & RAM Structural for Steel & Concrete
- Apply OBC requirements of Part 3, Part 4 and Part 9
- Assist in the design process of new builds and renovations
- Coordinate with clients & municipalities regarding project requirements and design
- Attend site visits & preparing site review sketches
- Proficient in preparing detailed drawings & construction drawings for Building Permits

Junior Project Manager

NDC Development Corporation

Vaughn, ON

December 2018 — December 2021

- Review drawings including Architectural, Structural, Mechanical and Electrical
- Prepare quantity take offs using Planswift, CAD, Revit and Excel
- Communicate and engage directly with architects, engineers and owners regarding project requirements and specifications
- Prepare project proposals, budgets and bid documents
- Attend site meetings and inspections
- Coordinate with subtrades and site supervisors throughout projects
- Prepare and handle Project Schedules using MS Project

SKILLS & QUALIFICATIONS

- Building Design: Structural & Architectural Design
- Building Code analysis and review: Parts 3, 4, 5, 9, 10 and 11
- Analysis & design software: WoodWorks, Sap2000, SkyCiv, Mi-Tek Sapphire
- BIM & Drafting: REVIT, AutoCAD
- Construction Project Management