
BRANDON GEMME

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CIVIL ENGINEER

Highly-organized, detail oriented, civil engineering graduate, with an interest in building science, concrete technologies, construction engineering, and sustainable development, seeking a position within your organization to utilize my wide range of work and academic experience to benefit your organization, gain valuable professional experience, and create positive change in the world.

EDUCATION

UNIVERSITY OF TORONTO | St. George Campus | Toronto, ON | 2012- 2017

B.A.Sc. Civil Engineering | Sustainable Energy Minor | Certificate of Engineering Business | Cumulative GPA: 3.18

Relevant Courses: Sustainable Buildings, Concrete Technologies, Construction Management, Environmental Risk and Impact Assessment, Geotechnical Engineering, Steel & Timber Design, Accounting and Finance, People Management & Organizational Behaviour, Energy Policy, Technologies & Organizations in Global Energy Systems.

RELEVANT WORK EXPERIENCE

BUILD MAX LIMITED – TORONTO, ON

Building Science Associate

(June 2017–Current)

- Conducts regular meetings with clients, contractors and the public to provide technical advice, resolve conflicts and provide solutions to ensure compliance with building code requirements.
- Manage large projects, contract administration and priority assignments.
- Prepare reports, evaluations and make recommendations/decisions on unusual site conditions affecting building structure and design.
- Conduct emergency site inspections to evaluate, investigate and resolve problems of complex technical nature. Investigate structural failures with recommendations for remedial measures.
- Assist in performing leak investigations, building condition assessments and reserve fund studies for multi-residential, commercial, and institutional facilities.
- Produce AutoCAD drawings and project specifications.

AECON UTILITY ENGINEERING – TORONTO, ON

Engineering Student

(May 2015–Dec. 2016)

- Learned and applied both CSA standards C22.3 No. 1-15 and C22.3 No. 7-15, which specify the minimum requirements related to electrical protection, safety and design for overhead and underground electric supply and communication systems.
- Performed non-linear analysis of utility poles using pole modelling software such as O-Calc Pro and SimPAS as per CSA C22.3 No. 1-15. Used these programs to generate engineering reports, which were submitted to city authorities as part of permit applications for new fibre attachments on utility poles.
- Used AutoCAD to design underground fibre optic conduit layouts as per CSA C22.3 No. 7-15.
- Completed third party reviews of proposed Bell fibre attachments on behalf of Toronto Hydro.
- Assisted in completing an RFP for a pole inspection project in Windsor.

UNIVERSITY OF TORONTO – TORONTO, ON

Summer Research Assistant

(May 2014-Aug. 2014)

- Worked with members of Professor Sheikh's structural research group at the University of Toronto, assisting with both lab and office duties.
- Responsible of a variety of tasks in the structural laboratory, both independently and in group settings, including: building of formworks, specimen test preparation, data analysis, placement of strain gauges, bending and cutting of steel reinforcement, coordinating and completing specimen casts.
- Worked extensively with Google Sketchup and AutoCAD to produce various 3D models.
- Ordered and retrieved materials and hardware from manufactures/retailers.
- Communicated with lab staff to coordinate tasks requiring trade skills such as specimen testing, machining, welding, etc., while also coordinating my lab time to assist multiple grad students simultaneously.

LEADERSHIP EXPERIENCE

CECA UNIVERSITY OF TORONTO CHAPTER – TORONTO, ON

Team Leader (Renewable Energy Team)

(Sept. 2014-May 2015)

- Worked with members of the Canadian Electrical Contractors Association (CECA) chapter at the University of Toronto to compete in the 2015 ELECTRI International Green Energy Challenge. Placed 4th out of 14 teams.
- Worked as the Team Leader for the Renewable Energy Team to design and write a proposal for a resilience plan and backup energy system for St. Michael's Missionary in Toronto, which included the use of sustainable energy systems, including solar energy and geothermal storage.
- Conducted multiple site visits in order to complete an energy audit of the building, as well as to help our team design a resilience plan and backup power system which would be suitable for the building, staff and residents.

ADDITIONAL EXPERIENCE

LOGISTICS IN MOTION LTD. – AJAX, ON

Perishable Item Selector

(May 2013- Aug. 2013)

ADVANTAGE FITNESS SALES INC. – MARKHAM, ON

Casual Tech Support

(Summer 2012 & 2013)

WAL-MART – WHITBY, ON

Pantry Sales Associate

(Nov. 2011– Aug. 2012)

AWARDS AND AFFILIATIONS

AWARDS AND ACCOMPLISHMENTS

- Aecon Above and Beyond Award (twice) (2015, 2016)
- University of Toronto – Dean's Honour's List (2012-2014)
- Scored 5 on Calculus AB Exam (2012)
- Ontario Scholar (2012)
- Certificate of Perseverance, École Saint Charles Garnier (2012)
- Certificate of Bilingualism, French/English, École Saint Charles Garnier (2012)

AFFILIATIONS AND MEMBERSHIPS

- Member, Canada Green Building Council (2017 – Present)
- Member, Ontario Society of Professional Engineers (2015 – Present)
- Member, Bridges to Prosperity – Toronto Chapter (2016 – 2017)
- Member, Canadian Electrical Contractors Association – Toronto Chapter (2014 – 2017)
- Member, University of Toronto Concrete Canoe Team (2013 – 2015)
- Mentor, Civ Club, University of Toronto (2013 – 2015)
- Member, Canadian Society for Civil Engineering – Toronto Chapter (2012 – Present)

SPECIALIZED SKILLS AND INTERESTS

PROGRAMS: O-Calc, SimPAS, AutoDesk, AutoCAD, Google SketchUp, STAAD Pro, NetX, GNet Viewer, AutoCAD Civil 3D, Revit, BIM, HOT2000, Microsoft Project, Microsoft Office (Word, PowerPoint, Excel, Access, Outlook), Microsoft Visio, ArcGIS, MicroStation, Adobe Acrobat X.

ADDITIONAL QUALIFICATIONS: LEED Accredited Professional (expected), TRCA Solar and Wind Energy Workshop, TRCA Off-Grid and Emergency Back Up Systems, NECA Online Course: Contractor 101, Class G Ontario Driver's Licence, Pleasure Craft Operator License, Experience Riding Motorcycles and Off-Roading Equipment.

PROFESSIONAL AND ACADEMIC INTERESTS: Sustainable Building Design, Concrete Construction and Repair, Project Management, Utility Design, Sustainable Energy Systems, Resilience Based Design, Global Development, Policy Making and Urban Planning.

HOBBIES: Martial Arts (Karate, Brazilian Jiu-Jitsu), Reading, Mindfulness, Video Games.

LANGUAGES: English (fluent), French (fluent).