Maher Absar

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EDUCATION

UNIVERSITY OF TORONTO
BASc in Civil Engineering
3rd Year Student
Sep 2017 - Present | Toronto, ON
Cumulative GPA: 3.52 / 4.0

BLOOR COLLEGIATE INSTITUTE
Talented Offerings for
Programs in the Sciences
Sep 2013 - Jun 2017 | Toronto, ON

TECHNICAL SKILLS

Programming:
Python • MATLAB • HTML • CSS

Software:
AutoCAD • Revit • Microsoft Office •
Abaqus FEA • SolidWorks • SAP2000

Other:
G2 Driver's Licence • Time Management
• Teamwork • Quick Learner

COURSEWORK

Steel and Timber Design
Civil Engineering Graphics
Reinforced Concrete I
Construction Management
Structural Analysis I
Solid Mechanics I

CERTIFICATES

Introduction to Revit for Structural
Engineers
Pluralsight | May 2020

Undergraduate Student
Research Award
NSERC | May 2019

Youth Leadership Scholarship
Milal Scholarship Award | Dec 2018

AutoCAD 2017 Essential Training
Lynda.com | Jan 2018

MATLAB Onramp
MathWorks | Sep 2017

WORK EXPERIENCE

RESEARCH ASSISTANT | University of Toronto
May 2019 - Aug 2019 | Toronto, ON
- Worked alongside Professor Bentz's MASc and PhD students to help with their reinforced concrete research in the Mark Huggins Structural Testing Labs
- Constructed formwork, prepared and strain gauged rebar, set up beams for the Baldwin Universal Testing Machine and prepared shell elements for Shell Element Tester
- Inspected regions under combined shear and torsion of a reinforced concrete beam and assessed loaded UHPFRC shell element behaviour to collect data
- Assisted in a project involving steel viscoelastic coupling damper testing by aiding in the setup, measuring deformations, strain gauging and modelling components of the experiment using MATLAB, SolidWorks and Abaqus Finite Element Analysis

TUTOR | Educare Tutoring
Sep 2016 - Aug 2019 | Toronto, ON
- Tutored multiple students, ranging from grade 1 to 12, in both individual and group settings to help them achieve their academic goals
- Identified students' weaknesses in order to develop individualized curriculum for improvement and to create on the spot lessons

ADMINISTRATIVE ASSISTANT | Toronto Police Service
Sep 2018 - Dec 2018 | Toronto, ON
- Nominated for the Milal Scholarship Award by 32 Division and received the scholarship for demonstrating youth leadership
- Sorted confidential records to develop a more effective organization method to facilitate faster location of the documents
- Assisted Canterbury Place Retirement Residence as a representative of the Toronto Police Service by running recreational programs for the seniors
- Participated in monthly training at the Toronto Police Headquarters to enhance the required skills for a professional working environment

PROJECT EXPERIENCE

JUNIOR DESIGN AND ANALYSIS LEAD | Seismic Design Team
Oct 2019 – Present | University of Toronto
- Analyzed designs of a scale high rise structure constructed out of balsa wood using SAP2000 to determine the period, displacements and member forces
- Tested model tower and examined data using Python/MATLAB
- Constructed the balsa wood tower based on a team REVIT model to ensure precision

TEAM MEMBER | Extending the Range of Electric Vehicles
Jan 2018 – April 2018 | University of Toronto
- Communicated with a client to establish project scope of increasing electric vehicle range from 400 km to 800 km
- Collaborated with six team members to develop Project Requirements and Conceptual Design Specification documents
- Implemented project management techniques to set up three client meetings and prepare a final presentation for the client and students