

Maher Absar

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EDUCATION

UNIVERSITY OF TORONTO

BASC IN CIVIL ENGINEERING

3rd Year Student

Sep 2017 - Present | Toronto, ON

Cum. GPA: 3.49 / 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 • SketchUp • Microsoft Office
• Abaqus • SolidWorks • SAP2000

Other:

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

COURSEWORK

Steel and Timber Design
Civil Engineering Graphics
Engineering Strategies and Practice
Construction Management
Structural Analysis I
Solid Mechanics I

CERTIFICATES

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

Introduction to Project Management

Da Vinci Engineering Enrichment Program

| July 2016

WORK EXPERIENCE

UNIVERSITY OF TORONTO | RESEARCH ASSISTANT

May 2019 - Aug 2019 | Toronto, ON

- Worked alongside Professor Bentz's MSc 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 gaining experience in modelling components of the experiment using MATLAB, SolidWorks and Abaqus Finite Element Analysis

EDUCARE TUTORING | TUTOR

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
- Applied critical thinking to identify students' weaknesses in order to provide material for improvement and to create on the spot lessons

TORONTO POLICE SERVICE | ADMINISTRATIVE ASSISTANT

Sep 2018 - Dec 2018 | Toronto, ON

- Nominated for the Milal Scholarship Award by 32 Division and received the scholarship for demonstrating youth leadership
- Sorted and organized confidential documents to facilitate a more effective tool for locating 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

SEISMIC DESIGN TEAM | JUNIOR DESIGN AND ANALYSIS LEAD

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 viscoelastic materials and examined data using Python to implement damping components in the balsa wood tower for Annual Seismic Design Competition hosted by the Earthquake Engineering Research Institute

EXTENDING THE RANGE OF ELECTRIC VEHICLES | TEAM MEMBER

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 (PR) and Conceptual Design Specification (CDS) documents
- Implemented project management techniques to set up three client meetings and prepare a final presentation for the client and students