

# Maher Absar

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## EDUCATION

### UNIVERSITY OF TORONTO

#### BASC IN CIVIL ENGINEERING

3rd Year Student

Sep 2017 - Present | Toronto, ON

Cumulative GPA: 3.48 / 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

### RESEARCH ASSISTANT | UNIVERSITY OF TORONTO

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 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