

# 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

### UNIVERSITY OF TORONTO

#### ENGINEERING BUSINESS MINOR

Jan 2020 - Present | 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

## WORK EXPERIENCE

### RESEARCH ASSISTANT | UNIVERSITY OF TORONTO

May 2019 - Aug 2019 | Toronto, ON

- Prepared stirrups, installed strain gauges on rebar and constructed formwork using **CAD drawings** to assist Professor Bentz's MSc and PhD students with their reinforced concrete research
- Inspected regions under combined shear and torsion of two reinforced concrete beam and assessed loaded UHPFRC shell element behaviour to collect data
- Measured deformations and modelled components of steel viscoelastic coupling damper testing using **MATLAB**, **SolidWorks** and **Abaqus Finite Element Analysis**

### TUTOR | EDUCARE TUTORING

Sep 2016 - Aug 2019 | Toronto, ON

- Tutored 20+ 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 (\$1,500) 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
- Led recreational programs for 30+ seniors at Canterbury Place Retirement Residence as a representative of the Toronto Police Service

## 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