

# Sina Azizi Soldouz

25 Greenview Ave. Toronto, ON, M2M 0A5

Tel: 416-890-0708, Email: [sina.azizisoldouz@mail.utoronto.ca](mailto:sina.azizisoldouz@mail.utoronto.ca)

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## **EDUCATION**

### **MASc., Civil Engineering**

*University of Toronto, Toronto, Canada*

Sep 2017 – Present

### **MASc., Civil Engineering (Transportation and Road Construction)**

*Imam Khomeini International University, Ghazvin, Iran*

Sep 2014 – Sep 2016

### **B.Sc., Civil Engineering**

*Islamic Azad University South Branch Tehran, Tehran, Iran*

Sep 2008 – Sep 2013

## **QUALIFICATIONS**

- Proficient understanding of Microsoft Excel, PowerPoint and Word
- Hands on AutoCAD, ETABS, EMME4, OpenLCA, SPSS
- Familiar with Programming Languages: Python, Macro

## **ACADEMIC EXPERIENCES**

- Graduate Research Assistant, Department of Civil and Mineral Engineering, University of Toronto  
Sep 2017 – August 2019
  - Thesis topic: Evaluating the impacts of “Autonomous” and “Connected Autonomous” vehicles on vulnerable road users with higher focus on blind pedestrians. In this regard, a survey is designed to investigate the perception level of these technologies. The questionnaire involves possible scenarios regarding communication between blind pedestrians and autonomous and connected autonomous vehicles. The data analysis process would result in some policy recommendations to be considered by Transport Canada.
- Graduate Research Assistant, Department of Civil Engineering, Imam Khomeini Intl. University  
Sep 2015 – August 2016
  - Thesis topic: Improving transportation network design by developing a bi-level model which minimized the total travel time of the network by considering the minimization of CO2 emission based on average travel speed of vehicles.
- Graduate Teacher Assistant, Department of Civil Engineering, University of Tehran Jan 2016  
Teacher Assistant for ‘Urban Transportation Planning’ course (marking midterm and assignments)

## **WORK EXPERIENCES**

- Civil Engineer Assistant, Mahdi Clinic Hospital Consultants Engineering Group, Tehran, Iran  
Apr 2014 – Oct 2014  
*Imam Khomeini Hospital project, Tehran, Iran (15 levels, almost 108,000m<sup>2</sup>)*
  - Assisted in providing technical engineering information and inspection reports on progress of sub-contractors’ operations for the management on a daily basis.
  - Ensured construction works and contract documents complied with standards, codes, and design instructions.
- Civil Engineer Assistant, Haraz Rah Consulting Engineers Group, Tehran, Iran Oct 2012 – Jan 2013

(2<sup>nd</sup> largest firm in road construction in Iran)

*Yadegar Imam Highway proje (2Km Underpass bridge)*

- Cooperated General survey duties (holding level distance metre reflector, call out readings, mark points of measurement with elevation and station), and compiled notes and record data
- Updated shop drawings based on the contract and communicated to foreman and supervisor.
- Collected and analyzed current traffic data and designed a survey method to evaluate the best alternatives for managing the current and the forecasted traffic for the project timeline. (The estimates and final report were completed and presented two months ahead of schedule)

## **PROJECT EXPERIENCES**

- CIV1506 - Freight Transportation and ITS Application course, University of Toronto Jan – April 2018
  - Developed a model by using Microsoft Excel and Python to estimate the cost effectiveness of using occasional drivers versus regular drivers for the last mile deliveries
- CIV531 - Transportation Planning course, University of Toronto Sep – Dec 2017
  - Familiarized with the four-stage model in Transportation Planning and how to use various available information on the household's characteristics for trip generation or other transportation planning purposes.
  - Assessed the impact of removing the East Gardiner Expressway and the effects of land use development in long term by using EMME 4.
- CIV1307 - Life Cycle Assessment and Sustainability of Engineering Activities, University of Toronto May 2018
  - Performed a comparative Life Cycle Assessment on Viva Bus Rapid Transit (BRT) in York Region and Spadina Streetcar line by evaluating the impacts of detailed infrastructure materials, fuel production, and vehicle production processes.
- CIV1532 - Fundamental of ITS and Traffic Management course, University of Toronto Sep – Dec 2017
  - Familiarized with traffic flow theory and how to enable technologies for advanced traffic management.
  - Learned about freeway management and control as well as how to implement adaptive signal control and incident management.
- Final Engineering Project for B.Sc. degree, Azad University of Tehran Sep – Dec 2012
  - Designed the required structural elements (beams, slabs, etc.) for a typical 5 level apartment based on given real life geotechnical data and submitted CAD drawings for the property by using RSMeans's available data for Tehran. (Used ETABS)