

Farres H. Abilmona

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EDUCATION

Bachelor of Science, Civil Engineering

January 2016-May 2019

University at Buffalo, The State University of New York.

ENGINEERING WORK EXPERIENCE

Junior Engineer, City of Buffalo, Buffalo, New York

December 2019-Present

- Worked with multiple consulting companies regarding progress and construction of Bike Buffalo-Niagara Project
- Designed and analyzed traffic data for the improvement of intersection and roadways in the City of Buffalo using the City and State guidelines
- Coordinated with The Greater Buffalo-Niagara Regional Transportation Council to design bike paths for the Bike Buffalo-Niagara Project and the Empire State Trail

Structural Engineer Intern, Dar Al-Handasah (Dar Group), Beirut, Lebanon

June 2018-July 2018

Project: American University of Beirut Medical Center (AUBMC) 2020

- Used QFD tools to identify critical design requirements and range of solutions for a group project
- Worked with structural engineers to design beams, columns, reinforcements, shear walls and different reinforced concrete structures
- Performed finite element analysis simulations using E-tabs, Safe and Excel to optimize the design parameters

Project: Prestigious Private Residence (2018)

- Studied AutoCAD drawings from architectural design for residences
- Analyzed residential requirements and designed foundation, columns, beams and different concrete slabs

ENGINEERING PROJECTS

Preliminary Design of the Selected US 231 (Indiana)- Transportation Capstone

Spring 2019

- Studied AutoCAD drawing from Department of Transportation and construction area to design horizontal and vertical alignments to meet state and AASHTO Green Book requirements
- Built excel model to calculate total cost of design and performed sensitivity analysis

Structure Design - End of Year Project

Spring 2018

- Designed and created drawings for two story building and performed load calculations to design girders, columns, beams and decking
- Created excel sheet to test different types of sections chosen for deflection, shear and moment failure

UB Seismic Design Project

Fall 2017-Spring 2018

- Coordinated with seismic team to get specific ASCE requirements and design and construct a twelve-story tower
- Verified shear and moment failures of the structure using SAP2000
- Conducted tests on the shaking table provided by University at Buffalo using multiple different frequencies to make sure the tower does not deform or break during the test

ADDITIONAL INFORMATION

- **Technical Skills:** Microsoft Office (Excel, Word, PPT), MatLab
- **Drafting Programs:** E-tabs, Safe, SAP2000, AutoCAD, PCA Columns, Revit, Carlson, Synchro, ArcGIS
- **Volunteer Experiences:** Member of Lebanese Orphanage Fundraiser - Plan, organize and run an annual fundraiser benefiting an orphanage in Lebanon, which provides social, educational and health services to over 900 children between the ages of 3 and 21
- **Languages:** Fluent in Arabic (Native Language) and English