Maria Bassil

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EDUCATION

PhD, Civil/Transportation Engineering, August 2020-present
The University of Texas at Austin
Overall GPA: 4.00/4.00

Master of Science, Civil and environmental engineering, August 2020
Lebanese American University
Overall GPA: 3.89/4.00

Bachelor of Engineering, Civil and environmental Engineering, May 2019
The University of Texas at Austin
Overall GPA: 3.88/4.00

INDUSTRY EXPERIENCE

Engineering Intern, Dubai contracting company (D.C.C.), DSLIP internship, 07/2018 – 08/2018
- Performed sites inspection to 10 mega construction projects in Dubai.
- Performed several punch lists, shop drawings revision.
- Updated construction projects schedule
- Estimated procurement quantities and cost.
- Engaged in a dispute solving exercise between an owner and a contractor.
- Reviewed bid documents and contract documents.

Associate, John Brumley Texas Venture Labs Practicum, Fall2021
- Applied my unique knowledge, skills, and background to deliver maximum value to my team's assigned startup
- Researched the viability of a business idea and deliver the results in a compelling and professional presentation that is appropriate to the audience.
- Explored real-world circumstances and the decisions presented to business leaders.

ACADEMIC EXPERIENCE

Graduate Research Assistant, The University of Texas at Austin, Fall2020 – Present
Working on multiple projects for the city of Austin and TxDOT including but not limited to:
- Addressing transportation data challenges by developing a framework to quantify arterial corridors performance metrics across modes using R-Studio and PostgreSQL, including travel time reliability metrics, transit reliability metrics.
- Data exploration and validation (Gridsmart data and Inrix data)
- Research work zone safety, road diets applications and pedestrian safety.

Graduate Research Assistant, Lebanese American University, Summer 2019 – Summer 2020
- Supervise undergraduate students.
- Exploration of the area of connected and autonomous vehicles.
- Simulation of conventional and autonomous vehicles using Vissim.

SKILLS

Transportation engineering, Structural engineering, and construction management
Software: Microsoft Office, Rstudio, TransCAD GIS, QGIS, JAVA, Jupyter Notebook-Anaconda, SQL, PTV Vissim, Corsim, Synchro, P6-Primavera, SAP, Robot, H2omap, Plaxis
Time management and leadership skills
Strong communication and presentation skills
Excellent team skills and writing skills

AWARDS AND ACTIVITIES

WTS heart of Texas Chapter Paula Hammond Leadership Legacy scholarship 2022
2021 Third Student data contest winner, TRB AED20(3)
Recipient of the ITS Texas Scholarship Award 2021

WTS heart of Texas Chapter Helene M. Overly memorial scholarship 2021
President, Women's transportation seminar – Heart of Texas Student Chapter, Nov 2021-present
Co-president, the UT Lebanese Cultural Organization, August 2021-present
Member, Order of engineers and architects, Tripoli, Lebanon, 2019-present
Passed The Fundamental of Engineering (FE) exam, 2021
Member, PHI SIGMA PI honor fraternity, Spring 2021-present
Member, WTS-ITS-ITE club, UT chapter, Fall2020-present
Member, WTS heart of Texas chapter, Fall2020-present
Member, Society of women engineers, UT chapter, Fall2020-present
Board member, UT Lebanese Cultural Organization, Fall2020-present
Active member, American Society of civil engineers (ASCE), Fall2015-present
Active member, Engineers without borders club, LAU chapter, Fall2015-present
LAU honor society, High Distinction, 2015-2020
Volunteer and active member, scout Maronite Kfarabida, Lebanon, 2010-2015

SELECTED PRESENTATIONS

Bassil, M., El Khoury, J., (2021). Preliminary traffic operations of autonomous vehicles. The third bridging transportation researcher (BTR#3) conference 2021.

Bassil, M., Zuniga Garcia, N., Ruiz Juri, N., Machemehl, R., (2022). Quantifying COVID-19 impacts on corridor performance metrics across modes. Transportation research board subcommittee AED20: Travel Time, speed, reliability.

LANGUAGES

English, French, and Arabic (Fluent in writing, reading, and speaking all three languages)