Osama B. Omar

740 SW 109th Ave, Miami, FL (33174) • (208) 997-8543 • obo@miami.edu

EDUCATION

University of Jordan, School of Graduate Studies, Department of Civil Engineering, Amman, Jordan, January 2019 - January 2021. (ABET Accredited)
Master of Civil Engineering / Transportation
GPA: 3.91/4.00
Thesis's Title: Develop a Prediction Temperature Model for The Pavement Structures

Hashemite University, Faculty of Engineering, Department of Civil Engineering, Zarqa, Jordan, September 2014 - August 2018. (ABET Accredited)
Bachelor of Science Degree in Civil Engineering
GPA: 3.14/4.00

RESEARCH EXPERIENCE

University of Idaho, Moscow, ID, USA
Research Assistant, August 2023 – May 2024

- Conducting a comprehensive literature review on mitigating Alkali Silica Reaction incorporating Natural Pozzolans (219 References with 26,662 WORDS)
- Laboratory testing and specifications (ASTM C127; C128; C136; C143; C192; C305; C490; C618; C1260) and (AASHTO T27 and T380)
- Basics in Particle Flow Code (PFC) Modelling Software (Discrete Element Method)

WORK EXPERIENCE
(+4 Years)

Consolidated Consultants Group, Riyadh, Saudi Arabia
Infrastructure Design Engineer, March 2023 – June 2023

- Highway geometric design using C3D
- Traffic flow analysis (LOS, Queue length, Delay, etc.) and T.I. studies
- Prepare hydrological studies using Watershed Modelling System
- Review proposals for crash data collection project in Riyadh, KSA

Soul Company Real Estate, Amman, Jordan
Owner's Consultant Engineer, December 2022 – February 2023

- Review and counsel design drawings
- Procurement, payment verification, and assistance during commissioning
- Represent the owner on the site and dispute resolution
- Quality control during construction

AWTAD Company for Contracting and Construction, Amman, Jordan
Technical Office Engineer, February 2020 – January 2022

- Prepare shop drawings, earthworks, and as-built drawings
- Quantity Surveying
- Provide technical reports for consultant approval submissions

AFNAN Contracting Company, Amman, Jordan
Site Engineer, August 2018 – January 2019

- Follow up on the executed site works according to the site drawings
- Coordinate with the office engineering department

SKILLS

- Proficient in R, AutoCAD, AutoCAD Civil3D, Paver, SPSS, Watershed Modeling System, and MATLAB
- Familiar with Sap, Safe, ETABS, CSI Column, Python, MS Project, Syncro and

Particle Flow Code (PFC)
- *Advanced in English. (IELTS Certificate: 6.5). GRE: (300), AWA (3.5)*

PUBLICATIONS

- *Usama B. Ayasrah,* Laith Tashman, Aslam AlOmari, and Ibrahim Asi (2022), Development of a Temperature Prediction Model for Flexible Pavement Structures, **Case Studies in Construction Materials**,18, e01697. https://doi.org/10.1016/j.cscm.2022.e01697. *(No. of citations=8)*

- *Usama B. Ayasrah* (2020), Distresses Around Manholes, **International Journal of Advanced Science and Technology**, 29(8s), 2894-2900. *(No. of citations=3)*

- Mohammad Qbilawi, Rana Imam, *Usama B. Ayasrah*, and Bara' Al-Mistarehy, Designing a Feeder Bus Network for the Amman Bus Rapid Transit System, **Journal of Traffic and Transportation Engineering.** (Under Review)

- *Usama B. Ayasrah*, Mohammad Qblawi, and Mo'taz Najar, Shops: A Distracting Factor at Signalized Intersections, **Transportation Research Interdisciplinary Perspectives**. (In Progress)

CONFERENCE PUBLICATIONS

- *Usama B. Ayasrah* and Laith Tashman (2023), An Analytical Model for Forecasting Pavement Temperature, **Proceedings of the 9th Symposium on Pavement Surface Characteristics**, Milan, Italy, CRC Press, 829-834. http://dx.doi.org/10.1201/9781003429258-81

RESEARCH EXPERIENCE

- Peer reviewer for the *Journal of Science and Technology/Yemen* since September 2022
- Peer reviewer for *Case Studies in Construction Materials/UK* since May 2023
- Peer Reviewer Certified with SCOPUS

UNIVERSITY OF IDAHO COURSES
(18 Credits)

- **Fall 2023** (Pavement Design, Statistical Analysis, Doctoral Research and Dissertation)
- **Spring 2024** (Introduction to Continuum Mechanics, Pavement Rehabilitation, and Seismic Design)