

Raed Hasan

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EDUCATION

Ph.D. of Civil and Construction Engineering/Transportation - Western Michigan University, Kalamazoo, MI, USA 2014 – 2019

Master of Building and Construction Engineering/Airport and Highway Engineering - University of Technology – Baghdad Iraq, 1997 - 2000

Bachelor of Building and Construction Engineering - University of Technology – Baghdad 1997.

SKILLS

Experience in General Computer Program

Windows, words, Excel, Power Point, Microsoft team, and Photoshop

Experience in specialist Computer Program

Auto CAD, civil 3D, GIS, Infracore

Experience in Transportation Computer Program

Synchro and VISSIM Traffic Simulation Software

SUMMARY

- I have the ability to work in preparing and evaluating bidding and contract documents
- I have the ability to supervise and manage contracts, with work experience in team management
- I have coordination abilities with senior and junior staff for smooth project operation, with flexibility in decision making
- I can handle work under pressure, and be prepared for overtime
- A wide range of experience in all aspects of scheme development from conceptual design to detailed design
- Experience in applying and developing modern project management systems, especially in infrastructure projects, specifically in Civil Information Management (CIM)

PROFESSIONAL EXPERIENCE

- **January . 2020 till now**
Teaching at University of Samarra University - College of Engineering - Civil Department, for Highway, Traffic and Survey engineering courses.
- **January . 2014 till 2020**
Studying of Transportation Engineering (Ph.D. degree) at the Department of Civil and Construction Engineering - Western Michigan University
- **January . 2012 till 2014**
Director of the Department of Engineering (Projects) at the University of Samarra
- **July. 2009 till 2012**
Teaching in Tikrit University – Iraq as a lecturer of Highways engineering and Engineering surveying subjects.
- **Jan. 2007 till March 2009**
Senior in "DAR AL EBDA'A" Engineering Consultant – Dubai – U.A.E.
Prepare Preliminary Estimate and if approved, refine then to be included in future budgets.
H.R. for this company.
- **Jan. 2006 to 2007**
Teaching in Tikrit University – Iraq as a lecturer of Highways Engineering and Engineering Surveying subjects.
- **Jan. 2000 to Aug. 2006**
Project Engineer, Manager of Civil Engineering Department in the State Company for Drugs Industry and Medical Appliances / Construction Section, (SDI) – IRAQ.
- **Oct. 1998 to June 1999**
Teaching in University of Technology - Baghdad as a lecturer of Civil Engineering Drawing Subject.

Experience to deal with human activity sensors

Brain sensor, Heart rate sensors, and GSR sensor

Others

Arabic and English language (writing, reading and speaking influence)

Research Assistant

Western Michigan University, 2015 till May 2019

- Studying the behavior of travelers, and evaluating the effect of transportation options on the health resulting from physical activities through participation in the development of the mobile application "PASTA" to collect physical activities and transportation activities using smartwatches and smartphones
- Participate in a study evaluating the behavior of bicycle drivers in real time in a mixed environment and using bike simulations and their implications for safety, which required to participate in a training course at the University of California, San Diego on reading and analyzing brain signals
- Preparing proposals and implementing studies that discuss the effects of societal cultures on transportation options and their outcomes with health returns and influence on the transportation system, in addition to completing questionnaires and obtaining approvals related to human studies (HSIRB)

Publications

➤ *Research papers and conferences*

- Role of social dimensions on active transportation and environmental protection :A survey at university of Samarra ,Iraq
Raed Hasan, Abbas Hadi Abbas, Keneth Kwayu, Jun-Seok Oh
Journal of Transport & Health
Accepted: 2019
- The Role of Social Norms and the Perceptions of Saudi Arabia' people on the Active Transportation
Raed Hasan, Mohammed Aljifri, Jun-Seok Oh
Transportation Research Board 98th Annual Meeting
Accepted: 2018
- User Activity and Trip Recognition Using Spatial Positioning System Data by Integrating the Geohash and GIS Approaches
Hafez Irshaid, Md Hasan, **Raed Hasan**, Jun-Seok Oh
Transportation Research Board 99th Annual Meeting
Accepted:2019
- Transportation Mode Detection by using Smartphones and Smartwatches with Machine Learning
Raed Hasan, Hafez Irshaid, Sangoo Lee, Jun-Seok Oh
Transportation Research Board 99th Annual Meeting
Accepted: 2019
- *Technical Reports*
- Effect of Cycling Skills on Bicycle Safety and Comfort Associated with Bicycle Infrastructure and Environment
Jun-Seok Oh, Valerian Kwigizile, Kapseong Ro, Ahmad Feizi, Brent William Kostich, **Raed Hasan**, Fadi Alhomaidat,
- Monitoring Daily Activities and Linking Physical Activity Levels Attributed to Transportation Mobility Choices.
Jun-Seok Oh, Raed Hasan, **Hafez Irshaid**, Shenjee Joo, Sangoo Lee, Ala Al-Fuqaha
Journal of Transport & Health 9, S33-S34
Accepted: 2018