

## **Curriculum Vitae**



### **A- PERSONAL INFORMATION:**

Surname: Mohammed

First name and initial: Bayar N.

Date of Birth: 1<sup>st</sup> of July 1975

Nationality: Iraqi Kurdish

Native language: Kurdish

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### **B- EDUCATION AND QUALIFICATION**

- B.Sc. Engineering/Civil Engineering, University of Duhok, Kurdistan Region, Iraq. 1995-1999.
- M.Sc. Engineering/Civil Engineering/ Transportation Engineering. University of Salahaddin-Erbil, Kurdistan Region, Iraq. 2001-2003.
- PhD Faculty of Science, Engineering and Technology/ Swinburne University of Technology, Melbourne, Australia. 2012-2016

## **C- PREVIOUS OCCUPATION:**

### **- Academic:**

- Assistant Lecturer, Faculty of Engineering\ Duhok University. 2003-2012.
- Lecturer, Civil Engineering Department, College of Engineering/ University of Duhok, from January, 2017 till now.

## **D- TEACHING SKILL:**

- Highway Engineering
- Traffic Engineering
- Pavement Management
- Pavement Design

## **E- SCIENTIFIC RESEARCH:**

1. Mohammed, B. N. 2003. Study of suitability of local aggregate for asphaltic mixtures in Dohuk Governorate., M.Sc. Thesis, University of Salahaddin, Erbil Kurdistan Region, Iraq.
2. Abdulrazaq\*, B. N. Hussein, N. A. & Aswad, N. H. 2005. Influence of zones characteristics on the CBD parking in Duhok city, Journal of Duhok University, Vol. 8, No. 2, pp. 143-151.
3. Mohammed, B. N, 2015. Development of Age Models for Rural Arterial roads in Victoria / Australia, presented in CAITR 2015 (Conference of Australian Institutes of Transport Research) at Melbourne University\ Victoria\ Australia.
4. Mohammed, B. N, Hassan, R. and Evans, R. Variation in Deterioration Rates of Major Arterials in Rural Victoria/Australia. In: proceedings of the 9th International Conference on Managing Pavement Assets (ICMPA9), 18-21 May 2015, Virginia, Washington DC. USA.
5. Mohammed, B., Hassan, R. & Alaswadko, N., 2016. Calibration of HDM-4 road deterioration models for rural arterial in Victoria/Australia. In: proceedings of the 2nd IRF Asia Regional Congress & Exhibition, October 16-20, 2016, Kuala Lumpur, Malaysia.
6. Mohammed, B., Hassan, R. & Alaswadko, N., 2016. Age models for rural arterials. In: proceedings of the 27th ARRB conference, November, 2016, Melbourne, Victoria, Australia.

7. Alaswadko, N., Hassan, R., Meyer, D. and Mohammed, B. 2016. Probabilistic Prediction Models for Crack Initiation and Progression of Spray Sealed Pavements. *International Journal of Pavement Engineering*, Published online: 18 Oct 2016, DOI: 10.1080/10298436.2016.1244437, available at: <http://dx.doi.org/10.1080/10298436.2016.1244437>.
8. Alaswadko, N., Hassan, R., Meyer, D. and Mohammed, B. 2016. An Absolute Deterministic Model for Permanent Deformation of Low Volume Flexible Pavements. In: proceedings of the 27th ARRB conference, November, 2016, Melbourne, Victoria, Australia.
9. Alaswadko, N., Hassan, R. and Mohammed, B. 2016. A New Approach for Estimating Pavement Rutting Progression. In: proceedings of the 2nd IRF Asia Regional Congress & Exhibition, October 16-20, 2016, Kuala Lumpur, Malaysia, ISBN: 978-0-692-84440-3. Papers access link: <https://www.dropbox.com/s/zbt0mltnuwceqbk/2016-ASRC2-Proceedings.pdf?dl=0>.
10. Mohammed, B., 2016. Improving the estimation of agency cost associated with increasing axle mass limits. PhD thesis, Swinburne University of Technology, Melbourne, Australia.
11. Alaswadko, N., Hassan, R., Meyer, D. and Mohammed, B. 2017. Modelling Roughness Progression of Sealed Granular Pavements: A New Approach. *International Journal of Pavement Engineering*, Published online: 02 Feb 2017, DOI: 10.1080/10298436.2017.1283689, available at: <http://dx.doi.org/10.1080/10298436.2017.1283689>.
12. Alaswadko, N., Hassan, R. and Mohammed, B. 2017. Multilevel modelling of Rutting Progression for Low Volume Roads. *RTR, Road & Transport Research: A Journal of Australian and New Zealand Research and Practice* Vol. 26, No 2, July, 2017. <https://search.informit.com.au/documentSummary;dn=024886407636418;res=IE LNZC>.
13. Alaswadko, N., Hassan, R. and Mohammed, B. 2018. Empirical Roughness Progression Models of Heavy Duty Rural Pavements. *World Academy of Science, Engineering and Technology, International Journal of Civil and Environmental Engineering*, Vol. 12, No. 3, 2018.  
<https://waset.org/publications/10008714/empirical-roughness-progression-models-of-heavy-duty-rural-pavements>
14. Mohammed, B., Hassan, R. & Alaswadko, N., 2018. The effect of traffic data source on deterioration rates of heavy - duty flexible pavements, *International*

Journal of Pavement Engineering, International Journal of Pavement Engineering,  
Vol. 19, no. 12 (Dec., 2018), pp. 1096-1110.

15. Alaswadko, N, Hassan, R. and Mohammed B. 2019. Performance Comparison between Heavy and Light Duty Pavements. Manuscript has been submitted to the International Journal of Pavement Engineering, February, 2019.

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\*Abdulrazaq is Mohammed now

#### **F- TRAINING COURSES AND WORKSHOPS:**

- Statistical Workshops\ Swinburne University of technology (2012-2013)
- Scientific seminars and presentations in civil engineering\ Swinburne University of technology 2012- 2016.
- Workshop on (Revitalization of Engineering Education in Kurdistan Region) 17-18/9/2018.