# UMME AMINA MANNAN, E.I.T.

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### Education

**PhD** with distinction, Civil Engineering (Concentration: Pavement Materials) 2017

University of New Mexico, Albuquerque, NM GPA 4.00/4.00

Dissertation: "Characterization of Asphalt Healing and Incorporation in A Fatigue Damage Model"

Master of Science, Civil Engineering (Concentration: Recycled Materials) 2012

University of Akron, OH GPA 3.953/4.00

Thesis: "Effect of Recycled Asphalt Shingles (RAS) on Physical and Chemical Properties of Asphalt Binders"

**Bachelor of Science**, Civil Engineering

2009

Bangladesh University of Engineering & Technology, Dhaka, Bangladesh GPA 3.64/4.00 Thesis: "Analytical Study of Horizontally Curved Bridge Deck by STAAD.Pro"

#### Professional License

Engineer Intern (EI), Ohio Board of Registration for Professional Engineers and Surveyors 2012

## Professional Experiences

University of New Mexico August 2012–December 2017

Research Assistant

August 2010-August 2012

Albuquerque, NM

2009 - 2010

Spring 2015

University of Akron

Research Assistant Akron, OH

Design Develop Build Ltd.

Junior Project Engineer Dhaka, Bangladesh

Teaching Experiences

University of New Mexico Fall 2017

Instructor(Mechanics of Materials) Albuquerque, NM

University of New Mexico

Instructor(Mechanics of Materials Albuquerque, NM

University of Akron Spring 2012

Teaching assistant (Soil Mechanics Lab) Akron, OH

University of Akron Fall & Spring 2011

Teaching assistant (Solid Mechanics) Akron, OH

University of Akron Fall 2010

Teaching assistant (Soil Mechanics) Akron, OH  $UA\ Mannan$  p. 2 of 2

## Honors, Grants & Awards

- APANM Best Poster Award, Asphalt Pavement Association of New Mexico, NM (2017)
- UNM Civil Engineering Scholarship, University of New Mexico, NM (2017)
- Best Paper Award, 6th International Conf. on Geotechnique, Construction Materials & Environment, Bangkok, Thailand (2016)
- APANM Asphalt Industry Scholarship, Asphalt Pavement Association of New Mexico (2016)
- UNM Civil Engineering Travel Grant, University of New Mexico (2016 & 2015)
- Elvidio V. Diniz, P.E. UNM Water Resources Scholarship, New Mexico Section of ASCE (2015)
- Student Research Grant (SRG), Graduate & Professional Student Association, University of New Mexico, NM (2014)
- Technological Scholarship (award for excellence in engineering education), Govt. of Peoples' Republic of Bangladesh (2008)
- Academic Achievement Scholarship (award for excellent result), Bangladesh University of Engineering & Technology, Dhaka, Bangladesh (2007)

## Computer & Software Skills

- Pavement Design: AASHTOWare, WinJULEA, KENPAVE, KENLAYER, LTPP
- Traffic Simulation: VISSIM
- **Highway Design**: AutoCAD, Civil 3D, MicroStation
- Miscellaneous: ArcGIS, Matlab, LATEX
- FEM Software: STAAD, ABAQUS, SAP
- Microsoft Office: Word, Excel, Access, PowerPoint, Project
- Statistics: RStudio, SPSS

#### Volunteer Services

- Reviewing Services: Applied Rheology, Journal of Testing and Evaluation, Transportation Research Board (TRB), Canadian Journal of Civil Engineering
- Arranged Workshops: Introduction To Rheology with Anton-Paar (2015), Asphalt Binder extraction and recovery (Rotavapor) for NMDOT (2014), DSR Testing for NMDOT (2014)

## **Professional Affiliations**

- Society of Women Engineers (SWE)
- American Society of Civil Engineers (ASCE)
- Engineers Without Borders UNM (EWB-UNM)