

# MD Aminul Islam

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## EDUCATION

### BOISE STATE UNIVERSITY

#### MS IN CIVIL ENGINEERING

Expected Dec 2018 | Cum. GPA: 3.88

### AHSANULLAH UNIVERSITY OF SCIENCE AND TECHNOLOGY

#### BS IN CIVIL ENGINEERING

Dec 2013

Dean's List (All Semesters)

Cum. GPA: 3.94 / 4.0

Major GPA: 3.97 / 4.0

Class position: 1 out of 110

## COURSEWORK

- Advanced Concrete
- Pavement construction and evaluation
- Computational Techniques
- Design and analysis of concrete structures
- Structural analysis and design
- Pre-stressed Concrete
- Design and analysis of steel structures

## SKILLS

### CIVIL ENGINEERING PROGRAMS

Autodesk Autocad 2D & 3D • STAAD Pro

• ETABS • SAFE • CSI Bridge • Illipave •

Pavement ME • WESLEA • ProVAL

### SIMULATION SOFTWARES

Comsol Multiphysics • Abacus

### OTHERS

Image processing of X-Ray CT images

• Non-Destructive tests using thermography • MS Office Package • Adobe Photoshop

### PROGRAMMING LANGUAGES

Matlab • Python • MS Visual Basic

• C/C++ • Java • PHP

## PROJECTS

### DESIGN

**6 storey RCC building** including footing using ETABS and SAFE,

Location: Dhaka, Bangladesh

### SURVEY

**Traffic volume and speed** study on an urban road located in Dhaka, Bangladesh

### EVALUATION

Evaluation of smartphones as an alternative to estimate pavement IRI

## EXPERIENCE

### IDAHO ASPHALT SUPPLY | LABORATORY TESTING ENGINEER (INTERN)

May 2018 – Present | Boise, ID

- Independently conducted laboratory tests of **pavements materials** such as **asphalt, emulsion, aggregates**, etc.

### BOISE STATE UNIVERSITY | GRADUATE RESEARCH & TEACHING ASSISTANT

August 2016 – Present | Boise, ID

- Conducted research on **computational damage modelling of concrete**.
- Demonstrating various experiments on **construction building materials**.

### DHAKA INTERNATIONAL UNIVERSITY | LECTURER IN DEPT. OF CE

July 2014 – August 2016 | Dhaka, Bangladesh

Taught following undergraduate courses

Engineering Mechanics • Solid mechanics • Fluid Mechanics • Surveying

### MEMORIAL CHRISTIAN HOSPITAL | CONSTRUCTION SITE INSPECTOR

Dec 2013 – July 2014 | Chittagong, Bangladesh

- QC and estimation of raw materials • **Managing inventory** • QC/QA of mixed concrete • **Structural detailing** • Preparing **technical reports after field visits**

### OTHERS

Developed several web based structural analysis program. These can be accessed through the following link:

<http://simplifieddesignofconcretestructures.weebly.com/>

## JOURNALS

- **Islam, M. A.**, Golrokh, A. J., Lu, Y., **Chemo-mechanical Modeling of Sulfate Attack induced Damage Process in Cement Stabilized Pavements** ASCE Journal of Mechanics, doi:10.1061/(ASCE)EM.1943-7889.0001545
- Lu, Y., Golrokh, A. J., **Islam, M. A.**, **Concrete Pavement Service Condition Assessment Using Infrared Thermography**. Advances in Materials Science and Engineering, doi:10.1155/2017/3829340.

## CERTIFICATION AND MEMBERSHIP

- Civil Engineering EIT (State of Idaho)
- ASCE Membership No.: 11717671

## LEADERSHIP

2017 Treasurer Association of Bangladeshi Students BSU

2012 AUST General Secretary AUST Civil Engineering Society

## LINKS

LinkedIn:// [Aminul Islam](#)

Researchgate:// [Aminul Islam](#)

Google Scholar:// [Aminul Islam](#)