



## AYAN SAHA

Lecturer, Dept. of Building Engineering and Construction Management (BECM)

Khulna University of Engineering & Technology (KUET)

## CONTACT

### Address:

Department of BECM, KUET,  
Khulna-9203, Bangladesh.  
<https://www.kuet.ac.bd/becm/ayansaha/>

 [ayansaha@becm.kuet.ac.bd](mailto:ayansaha@becm.kuet.ac.bd)

 +8801772086084

## SKILLS

- Good communication skill both in written & spoken English & Bengali language
- AutoCAD 2D & 3D
- Autodesk Revit Architecture
- 3D Studio Max
- Sketchup
- ETABS Structural Analysis
- Autodesk Robot Structural Analysis
- MS Office (Word, PowerPoint, Excel and Project)
- Autodesk Navisworks
- Building Information Modeling (BIM)
- Programming skill with C+ and FORTRAN language

## CAREER OBJECTIVE

Provide the best of my professional ability, analytic skills and techniques to enhance my knowledge as well as to achieve the goal and advancement of the organization.

## EDUCATION

### Bachelor of Science (B.Sc. Engineering):

Passing year : February, 2019  
 Subject : Building Engineering and Construction Management (BECM)  
 Institution : Khulna University of Engineering & Technology  
 CGPA : 3.90 (in scale of 4.00)

### Higher Secondary Certificate (HSC):

Passing year : 2014  
 Group : Science  
 Institution : Govt. Rajendra College, Faridpur  
 GPA : 5.00 (in scale of 5.00 )

### Secondary School Certificate (SSC):

Passing year : 2012  
 Group : Science  
 Institution : Faridpur Zilla School, Faridpur  
 GPA : 5.00 (in scale of 5.00 )

## RESEARCH INTEREST

Concrete technology: Self-compacting concrete, Ultra high-performance concrete, Fiber reinforced concrete, Advanced materials, Construction Management, Building Information Modelling, Earthquake engineering, Sustainable construction materials, Structural health monitoring.

## RESEARCH EXPERIENCES

- Undergraduate Thesis:** Investigation on self-compacting concrete using glass as secondary coarse aggregate supervised by Dr. Md. Habibur Rahman Sobuz, Assistant professor of Dept. of BECM, KUET.
- Worked on development of SCC incorporating rice husk powder with waste galvanized copper wire fiber with Jannatul Ferdous Anamika and Dr. Md. Habibur Rahman Sobuz.
- Worked on fiber reinforced lightweight concrete using nylon fiber as fine aggregate with Sarkar Raj Kishore Bappa and Dr. Md. Habibur Rahman Sobuz.
- Working on performance assessment of various seismic resistant systems for a multistory structure in different seismic zones with a 3<sup>rd</sup> year undergrad student.

## PUBLICATIONS

1. Ayan Saha, Md. Habibur Rahman Sobuz, Md. Ikramul Hoque & Rashid Mujahid (2020): Influence of waste glass aggregates on the rheological properties of self-consolidated concrete, Australian Journal of Civil Engineering, DOI: 10.1080/14488353.2020.1785666.
2. Performance of self-compacting concrete made with waste glass as secondary coarse aggregate (under review on Construction and Building Materials journal).

## MAJOR ACADEMIC PROJECTS

- Six storied '8'-shape building analysis using BIM technique (Revit, Robot, Design Review, Navisworks).
- Landscape design – “student welfare center (SWC) area”, KUET, Khulna.
- Two-story commercial building project management with detailed cost estimation.
- Interior design of the university lobby of BECM department, KUET, Khulna.
- Structural design of ten storied building with both manual technique & ETABS design software.
- Architectural design of the four storied residential building inspired by architect ‘TADAO ANDO’.
- Architectural design of an institutional building (school) and a Skyscraper.

## EXPERIENCES AND VOLUNTARY WORKS

- **2018-Present - Lecturer at Khulna University of Engineering & Technology**
- 2017-2019 - Organizing Secretary, Institute of Civil Engineers (ICE), KUET chapter
- 2018-2019 - Vice-President, Greater Faridpur Association, KUET
- 2018-2019 - Vice-President, KUET Sanatan Society
- 2018-2019 – Organizer at 3<sup>rd</sup> and 4<sup>th</sup> BUILTECH FEST, BECM, KUET
- 2016-2017 – Volunteer at 1<sup>st</sup> and 2<sup>nd</sup> BUILTECH FEST, BECM, KUET

## AWARDS AND CERTIFICATIONS

- **University gold medalist** for securing 1st position in graduating class.
- **Dean's award** for scholastic achievement in consecutive four academic year (2015-2019), KUET.
- Awarded as **Best Technical Writer** in Technical Writing segment, BUILTECH FEST 2.0 & 3.0, KUET.
- Awarded as 2nd Runners-up in Case Study Solving segment, BUILTECH FEST 3.0 (2019). KUET.
- C for everyone: Programming Fundamentals (online course by University of California Santa Cruz).
- Autodesk Certified Professional: AutoCAD for Design Exam Prep. (online course by AUTODESK).
- Autodesk Certified Professional: Revit for Structural Design Exam Prep. (online course by AUTODESK).
- Autodesk Certified Professional: Revit for Architectural Design Exam Prep. (online course by AUTODESK).
- BIM Application for Engineers (online course by National Taiwan University).
- BIM Fundamentals for Engineers (online course by National Taiwan University).
- Understanding Research Methods (online course by University of London).
- Excel Skills for Business: Essentials (online course by Macquarie University).
- Introduction to LEED v4.1 for Design and Construction (online course by U.S. Green Building Council)

## REFERENCES

Md. Ikramul Hoque  
 Assistant Professor,  
 Department of Building Engineering and  
 Construction Management (BECM)  
 Khulna University of Engineering & Technology,  
 Khulna-9203, Bangladesh.  
 Email: ikramul3300@becm.kuet.ac.bd  
 Phone no. +088-41-769471

Dr. Md. Habibur Rahman Sobuz  
 Assistant Professor,  
 Department of Building Engineering and  
 Construction Management (BECM)  
 Khulna University of Engineering & Technology,  
 Khulna-9203, Bangladesh.  
 E-mail: habib@becm.kuet.ac.bd  
 Mobile: +88-01751370348

## DECLARATION

I, the under signed declare to the best of my belief that, this CV correctly describes my qualification, experience and myself. I understand that willful misstatement described, may lead to my disqualification or dismissal.