

A.F.M Saiful Amin

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Career Summary:

- Working as Freelance Consultant & Advisor for different local large companies or Government mega projects & considered as the Authority of civil engineering, design, Policy Making, Feasibility & Risk Analysis, Structural Design, Construction methodology, Bridge Engineering, R&D, innovation, Civil Engineering Software, Automation, Project Management & Architect & Structural solution area.
- Working as Professor of Bangladesh University of Engineering & Technology (BUET) & have 24 years' experience as an Academician in Learning & Development industry & also working as a respected Fellow of Institution of Civil Engineers, UK (presidential invitation) and Geotechnical & Earthquake Society of Bangladesh, IEB, International Associations of Bridge & Structural Engineer. & member of American Society of Civil Engineers who has participated in several research & conferences & received awards and grants, travelled & given lectures in 10+ countries on civil engineering solution
- A result oriented professional driven by the desire to excel business with new concepts, along with expertise in advanced methodology, proven advice, data driven solution, Critical Situation Handling, Forecasting, customized recommendation, strategic Planning & Designing implementation framework
- Established track record of managing diversified assignments & project & demonstrated expertise in surpassing goals, attaining objectives & exceeding expectation in different competitive area

Career Objective: To work as a Consultant & recommend creative & latest solution to different organizations.

Key Proficiencies:

- National Policy Making
- Mega Project Management
- Database design
- Conceptual skills
- Legal compliance
- Risk Assessment
- Feasibility analysis
- BOQ, Scheduling
- Latest Technology
- Global Methodologies.
- Technical Evaluation
- Problem solving

Professional Experience as freelance Consultant:

- Design Review Consultant for Construction of 162 km Railway between Dhaka & Jashore crossing the Padma Bridge for Bangladesh Railway from BUET as associate consultant Bangladesh Army.
- National Expert for construction of First Dhaka Elevated Expressway for Bangladesh Bridge Authority.
- Expert services for Rating of Bongabandhu Bridge (4.8 km long) for Bangladesh Bridge Authority.
- Checking the structural design of 115m steel truss for the Surma Bridge in Sylhet for Roads & Highways
- Design Modification for Completion of 465m PC Girder Bridge over the Lohalia River for LGED.
- Consultancy services for the construction of 20-storied academic & administrative building for BUTEX.
- Checking the Structural Safety of Bangladesh Bridge Authority Headquarter Building,
- Checking structural safety of a building of ICDDR, Dhaka, Bangladesh.
- Consultant of Bangladesh Bridge Authority for Identification of Cracks in Bangabandhu Bridge in 2006,
- Advisor to the Bangladesh Bridge Authority for Repair & strengthening of in the 4.8 km long Bangabandhu Jamuna Bridge during 2012-2015, the longest bridge of Bangladesh.
- Team Leader for Structural Health Monitoring of 4.8 km long Bangabandhu Jamuna Bridge during 2014-2015, the longest bridge of Bangladesh.
- Team Leader for Repair and Rehabilitation of Meghna and Meghna-Gumti Bridges, Roads and Highways Department, Bangladesh in 2012, the two important bridges of Bangladesh to maintain connectivity between Dhaka, the Capital and Chittagong, the major port City.
- Identification of problems and solutions for Khodarhat Bridge, Roads & Highways, Bangladesh & Mahananda and Meghna Bridges of Local Government Engineering Department in 2012-2013.
- Technical advisor for 100m and 115m steel bridges of Roads & Highways, Bangladesh during 2011-2015.

- Strengthening of Gausia Market, many other market places and commercial facilities in introduction of fibre reinforced polymer and micro-concrete jacketing technique during 2006-2015.
- National Expert Committee to Investigate the Collapse of Bohoddarhat Flyover during Construction.
- Investigation of Spectrum Sweater Factory Building Collapse in 2005.
- Team Leader for Technical Services in Construction of 60-90m Telecommunication Towers for Police as its Dhaka-Chittagong Microwave Backbone & Dhaka City CCTV Surveillance network in 2009.
- Team Leader for Structural Safety Assessment of over 100 commercial and industrial buildings aftermath of Rana Plaza Collapse 2013 and Nepal Earthquake 2015.
- Advisor, Updating of Bangladesh National Building Code 2015.

Experience as Academician:

1. Organization Name: Bangladesh University of Engineering & Technology (**Website:** buet.ac.bd/)

Designation 1: Professor

Duration: From 2011 to till now

Designation 2: Associate Professor

Duration: From 2005 to 2010

Designation 3: Assistant Professor

Duration: From 2001 to 2004

Designation 4: Lecturer

Duration: From 1996 to till now

- Leading all the academic activities with a team of junior teachers, disbursing task among them, mentoring & follow up & monitoring & evaluating their performance as per KPI at the end of the year.
- Developing Policy for the department, Costing & Budgeting & implementing them properly.
- Monitoring the running programs, designing the curriculum, setting the contents & modules, assigning teachers for particular course.
- Creating e-learning platform for the students & conducting class from virtual platforms.
- Initiated for different knowledge sharing & capacity development programs for the teachers.
- Supervising thesis, giving creative idea, providing guideline to students regarding project progress.
- Supervising Departmental work & promotes excellence in instruction, scholarly & creative productivity
- Reviewing the Departmental policies, procedures, recommendations for appointment, salary, retention, tenure, and/or promotion of faculty, and ensuring that all the policies are followed.
- Completed 50+ publications in peer reviewed International Journals and conference proceedings.
- Developed collaboration with 15+ universities & conducted class on different topics at home & abroad.
- Design, construction, maintenance & strengthening of long span bridges, maintenance of bearings and joints for bridges, strengthening of buildings, promoting the appropriate use of recycled concrete.
- Led the Repair, strengthening and health monitoring of Bangabandhu Jamuna Bridge (4.8 km), the Meghna Bridge (930m) and the Gumti Bridge (1410 m) & 21 storied Marriott Courtyard Dhaka.
- Organized seminars and symposiums on bridge engineering (2005, 2010, 2015 bridge engineering conferences), the major civil engineering infrastructure for the country.
- Conducting research in development of methodology for repair and retrofitting of non-compliant structures & for producing green concrete by best utilizing the demolished recycled concrete.

Awards & Appreciations:

- ICE Ambassador from South Asia in bicentenary celebration of the Institution of Civil Engineers (ICE), United Kingdom 2018
- FY2016 JSCE International Outstanding Collaboration Award for continuous efforts and remarkable contribution to the development of infrastructures in Bangladesh,
- Fellow on Presidential Invitation, Institution of Civil Engineers, United Kingdom.
- Research Fellow, Alexander von Humboldt Foundation, Germany, since 2007.
- Visiting Professor, Faculty of Aerospace Engineering, University of Federal Armed Forces Munich, Germany, during February 2007-August 2007.
- Visiting Professor in the Institute of Mechanics, University of Kassel, Germany, during Aug -Nov 2004.
- Recipient of Ministry of Education, Science and Culture of the Government of Japan (Monbusho) scholarship for undertaking doctoral research in the Saitama University, Japan.
- Recipient of Malik Akram Hossain Gold Medal 1996 for securing first position in BSc. Engg. (Civil).

Guest & Keynote Lectures:

- Delivered lecture on “Retrofitting of Buildings and Bridges in Bangladesh: Needs and Intricacies” in 68th Founding Anniversary Presentation of IEB in May 2016
- Spoke on “Participation of Bangladesh in Regional Surface Transportation Connectivity: Prospects and Intricacies” by FEISCA Seminar on Regional Cooperation for Connectivity in Surface Transportation.
- Intrinsic Properties of Brick Aggregate Concrete: A Review at the CICM 2015 at MIST, Dhaka.
- Design, construction & maintenance of bridges in Bangladesh: In the past, present & future, Keynote address at the IABSE-JSCE Joint Conference on Advances in Bridge Engineering-III & Centennial Celebration of Hardinge Bridge in 2015 (Redelivered the lecture at AUTS, CUET & RUET)
- Bridge Dynamics and its Applications in Maintenance and Rehabilitation, ICE-IEB Seminar, in 2012
- Seminar On “Developing a physically-based and thermo mechanical-consistent constitutive theory for rubber with special reference to temperature history effects” in Sept 2009 at Friedrich-Alexander-University, Erlangen-Nürnberg, Germany.
- Joined in International Collaborative Graduate Program arranged by Saitama University, Japan on Improved Application of High Damping Rubber for Earthquake Resistant Design in 2008.
- Seminar on High Damping Rubber in Earthquake Resistant Design of Structures and Development of Constitutive Models for Rubber organized by McGill University & Concordia University, Canada in 2007

Academic Qualification:

- Completed Ph.D. from Saitama University in 2001.
- M.Sc. in Civil from Bangladesh University of Engineering & Technology in 1998.
- B.Sc. in Civil from Bangladesh University of Engineering & Technology in 1996.



Membership:

- Editor, Journal of Civil Engineering, Institution of Engineers, Bangladesh [2006 to date]
- Member Secretary, Board of Accreditation for Engineering & Technical Education, Bangladesh.
- Member, Civil Engineering Divisional Committee, Bangladesh Standards and Testing Institution (BSTI), responsible for enacting & revising standards for all civil engineering construction materials. [2013-16]
- General Secretary, International Association for Bridge and Structural Engineering, [2010 to date]
- Member Secretary of Institution of Engineers Bangladesh from 2016 to till now
- Member, Scientific Committee, 38th IABSE Symposium, Geneva, Switzerland, September 23-25, 2015 on ‘Structural Engineering - a solution provider to global challenges’.
- Vice Chairman of Bangladesh Chapter of Institution of Civil Engineers from 2018 to till now
- Member Secretary, Steering Committee to organize the IABSE-JSCE International Conference on Advances in Bridge Engineering-III in association with the Japan Society of Civil Engineers and ICE (UK), ICE Centre Bangladesh, ASCE Bangladesh IS, Institution of Engineers, Bangladesh, Japan Concrete Institute and Japan Pre-stressed Concrete Institute as the co-organizers.
- Member, Scientific Committee, 36th IABSE Symposium, Kolkata, India, September 24-27, 2013 on 'Long Span Bridges and Roofs - Development, Design and Implementation'.
- Council Member of the Dhaka Centre, Institution of Engineers, Bangladesh. [2004-2005 & 2009-2010]
- Member, ICT Committee, Dhaka Centre, Institution of Engineers, Bangladesh. [2009-2010]
- Member, Executive Committee, BUET Teachers' Association [2009]
- Member, International Advisory Committee, 12th International Conference of International Association for Computer Methods and Advances in Geomechanics; 1-6 Oct, 2008, Goa, India.
- Member, Editorial Board of the 3rd Annual Paper Meet & International Conference on Civil Engineering being organized by the Civil Engineering Division, IEB in 2005.
- Member, Scientific Committee, US-Bangladesh Workshop on Innovation in Windstorm/Storm Surge Mitigation, Dhaka, LGED Bhaban, 19-21 December 2005.
- Member of the Editorial Board for reviewing and scrutinizing papers for the National Seminar.

Computer Skill: Sound in Microsoft office

Language: Fluent in Bangla and English