

Md Mehrab Hossen Siam

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EDUCATION

Bachelor of Science in Mechanical Engineering

Bangladesh University of Engineering and Technology (BUET)
Dhaka, Bangladesh

CGPA: 3.78/4.00 (3.96/4.00 in last four semesters)
(February 2017 – May 2022)

Higher Secondary School Certificate

Notre Dame College
Dhaka, Bangladesh

GPA: 5.00/5.00
(May 2014 – June 2016)

Secondary School Certificate

Barisal Govt. Model School and College
Barisal, Bangladesh

GPA: 5.00/5.00
(January 2010 – January 2014)

PROFESSIONAL EXPERIENCE

Research & Development (R&D) Engineer

R&D Unit, Spectrum Engineering Consortium Ltd.
Dhaka, Bangladesh

(June 2022 – present)

Research & Development (R&D) Intern

R&D Unit, Spectrum Engineering Consortium Ltd.
Dhaka, Bangladesh

(February 2022 – April 2022)

Industrial Trainee

Elite Hitech Industries Ltd.
Cumilla, Bangladesh

(April 2022 – May 2022)

Mechanical Team Member

Auto Maestro (Go-kart Project of BUET Automobile Club (BAC)).
Dhaka, Bangladesh

(January 2020 – January 2021)

TECHNICAL SKILLS

- **CAD Modeling:** SolidWorks, AutoCAD
- **Machining:** Welding, Lathe, Milling, Shaping, Drilling
- **CFD, FEA, and Analysis tools:** ANSYS Workbench (Mechanical, FLUENT), MATLAB, COMSOL Multiphysics
- **Programming Language:** Python, C, Arduino programming
- **Office Accessories:** MS Word, MS PowerPoint, MS Excel
- **Plotting tools:** Tecplot 360
- **PLC Software:** Siemens LOGO
- **Other Software:** 3E Plus, HTRI, Latex, Cura 3D Slicer

PROJECTS

Professional Remotely Operated Vehicle (ROV)

- *Researched, developed, designed, analyzed, and manufactured Remotely Operated Vehicle (ROV) robots to execute specific tasks*
- *Got hands-on experience in planning and implementing the electro-mechanical system with innovative ideas*

Professional Go Kart

- *Got hands-on experience in designing, analyzing, implementing, testing, and manufacturing an automotive system, especially Go-Kart.*
- *Participated in the international Go-Kart championship 2020 as a team successfully*

Automatic Watering System by Autonomous Robot

- *Used SOLIDWORKS, various machining processes for designing and building the prototype of the electro-mechanical system*
- *Utilized Arduino Uno, moisture Sensor, Sonar Sensor, and water pump to properly water a garden autonomously*

Oil Cooler with Bare Inner Tubes

- *Used HTRI for optimizing design parameters according to system demand.*
- *Analyzed and calculated the design parameters of a heat exchanger (DPHX) for manufacturing*

PUBLICATIONS

1. **Siam, M. M. H.,** Hossain, M., Md., Rahman, M. A., (2022). Analysis of Thermal Performance of Different Materials and Configurations for Insulation Walls of Transport Refrigeration Vehicles. *7th World Congress on Momentum, Heat and Mass Transfer (MHMT'22)*, DOI: 10.11159/enfht22.224

AWARDS AND ACHIEVEMENTS

- **University Merit Scholarship, BUET**
(three times - June 2019, June 2021, January 2022)
- **Dean's List Award, BUET**
(two times - For Level-3 and Level-4)
- **University Stipend**
(two times – 2019, 2021)
- **HSC Board Scholarship, Dhaka**
(2016)
- **SSC Board Scholarship, Barisal**
(2014)
- **Regional Runners-up, Physics Olympiad 2013, Barisal region**
(2013)
- **JSC Board Scholarship, Barisal**
(2012)
- **Regional second runners-up, Science Olympiad 2012, Barisal region**
(2012)

SELECTIVE CERTIFICATIONS

- **Certified SOLIDWORKS Associate (CSWA) - Mechanical Design**
Dassault Systems February 2022 Credential ID: C-ELCR4HNWGK
- **Certified SOLIDWORKS Professional (CSWP) - Sheet Metal**
Dassault Systems February 2022 Credential ID: C-M2ZHCG9D78

- **Python for Everybody Specialization**

University of Michigan / Coursera May 2020 Credential ID: JGEEFFMGH86B

- **Excel Skills for Business Specialization**

Macquarie University / Coursera August 2020 Credential ID: ZCNDHW8R3GBT

- **Introduction to Programming with MATLAB**

Vanderbilt University / Coursera June 2020 Credential ID: 2ZFLC25GPZV5

- **Exploratory Data Analysis with MATLAB**

MathWorks / Coursera July 2020 Credential ID: PGDWZ4BHTE9J

- **Data Processing and Feature Engineering with MATLAB – MathWorks**

MathWorks / Coursera July 2020 Credential ID: K7EE5BXT3KWA

- **Introduction to Aerospace Engineering**

MIT / edX July 2020 Credential ID: cbee4b247d174d5b8f63fa4833c79961

- **Electric Cars: Introduction**

Technische Universiteit Delft / edX July 2020 Credential ID: cbee4b247d174d5b8f63fa4833c79961

- **Project Management: The Basics for Success**

UC Irvine / Coursera June 2020 Credential ID: S4TABRZY4CT7

- **Six Sigma Principles**

Georgia University System / Coursera October 2021 Credential ID: GQ4F3XJ5QHAM

LINGUISTIC PROFICIENCY

• Bengali	native or bilingual proficiency
• English	full professional proficiency
• German	elementary proficiency

EXTRACURRICULAR ACTIVITIES AND AFFILIATIONS

Joint Secretary BUET Automobile Club (BAC).	April 2021 to April 2022
Treasurer IMechE BUET Students Chapter.	February 2021 to April 2022
Association Representative Mechanical Engineering Association (MEA), BUET.	January 2017 to April 2022
Joint Secretary BUET Students Association of greater Barisal (DHANSHIRI).	June 2019 to April 2022
Affiliate Member Institution of Mechanical Engineers (IMechE).	February 2021 to present
Student Volunteer 13th International Conference on Mechanical Engineering, BUET. (ICME 2019).	December 2019

REFERENCE

Dr. Md. Ashiqur Rahman
Professor
ME-408, ME Building, Department of Mechanical Engineering,
Bangladesh University of Engineering and Technology (BUET),
Dhaka-1000, Bangladesh.
Email: ashiquurrahman@me.buet.ac.bd