

CURRICULUM VITAE



MUHAMMED KAMRUL ISLAM

M.Sc. in Mechanical Engineering

B.Sc. in Mechanical Engineering

Assistant Professor

Department of Mechanical Engineering,
Chittagong University of Engineering &
Technology (CUET), Chittagong -
4349, Bangladesh.

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➤ *Academic Qualifications*

M.Sc. in Mechanical Engineering 2018 **CGPA : 3.88** (out of 4.00)
(*Industrial Engineering*)
Chittagong University of Engineering & Technology Credits: 36 (Thesis
(CUET), Bangladesh. 18 credits)
Medium of Instruction: English

B.Sc. in Mechanical Engineering 2012 **CGPA : 3.82** with
Chittagong University of Engineering & Technology Honors(out of 4.00)
(CUET), Bangladesh. Position: 1st
Medium of Instruction: English Credits: 160

➤ *Project and Thesis*

M.Sc. Thesis Risk modeling of process operations for crude oil refineries using Fuzzy logic.

Supervisor: Dr. Sajal Chandra Banik, Professor, Department of Mechanical Engineering, CUET.

B.Sc. Thesis Design and Fabrication of an autonomous line follower robot with Magnetic Gripper.

Supervisor: Dr. Tazul Islam. Professor, Department of Mechanical Engineering, CUET.

➤ *Publications*

- [1] Muhammed Kamrul Islam, Sajal Chandra Banik, Nazmus Sakib, Nurun Nahar Begum, "Multi-Criteria Decision-Making Tool for the Safety of Bangladeshi Industries Using Fuzzy Logic," *International Journal of Production Engineering*, vol. 4, 2018.
- [2] Muhammed Kamrul Islam, Muhammad Sadekul Islam, Nurun Nahar Begum, Kazi Zahir Uddin, "Fabrication and Performance Study of a Direct Type Solar Dryer," *International Journal of Scientific & Engineering Research*, vol. 9, pp. 565-569, 2018.
- [3] Nurun Nahar Begum, Muhammed Kamrul Islam, Imtiaz Ahmed Choudhury, Azuddin Bin Mamat, "Effect of Injection Parameters on Green Part Mechanical Properties for Metal Injection Molding," in *International Conference on Mechanical Engineering and Renewable Energy 2017 (ICMERE 2017)*, 2017.
- [4] Mehedi Tusar, Abdullah Al Noman, Muhammed Kamrul Islam, "Analysis on Mass Flow Rate of Flue Gas For A Pulverized Coal Power Plant at Inlet & Outlet," in *International Conference on Mechanical Engineering and Renewable Energy 2017 (ICMERE2017)*, 2017.

- [5] Farhana Nasrin Akter, Muhammed Kamrul Islam, Nurun Nahar Begum, "Fabrication and Performance Analysis of A Low Cost Parabolic Type Solar Cooker," in *AIP Conference Proceedings*, 2017.
- [6] Md. Mehdi Masud Talukder, Md. Rukanuzzaman Rukan, Muhammed Kamrul Islam, "Comparative Aerodynamic Analysis of Wind Turbine Blade Profiles," *International Journal of Engineering Research and Technology*, vol. 5, pp. 96-102, 2016.
- [7] XiangZhou Yuan, Abu Hamja, Muhammed Kamrul Islam, ChunYang He, Hyung-Taek Kim "Commercial-Scale Coal-To-Sng Plant: Modeling, Simulation and Preference Evaluation Using Illinois #6 Coal And Ibc Low Rank Coal By Aspen Plus," in *International Conference on Mechanical Engineering and Renewable Energy 2015*, 2015.
- [8] Md. Mehedi Hasan, Abu Hamja, Muhammad Kamrul Islam, "Soft Lithography based Printed Methyl Ammonium Iodide Hybrid Organo Metal Perovskite Solar Cell without Hole Transporting Layer," in *International Conference on Mechanical Engineering and Renewable Energy 2015*, 2015.
- [9] Md. Mehedi Hasan, Abu Hamja, Muhammad Kamrul Islam, Aman Abdulla Tanvir, S. M. Shahnewaz Shiddique:, "Hybrid Renewable Energy Systems With Optimal Design of Gas Generator and Grid System Integrated with Photovoltaics for Industrial Areas of Bangladesh: A Case Study From Narayanganj Industrilal Area," in *International Conference on Mechanical Engineering and Renewable Energy 2015*, 2015.
- [10] Sattom Halder, Muhammed Kamrul Islam, Mahmood Sabria Chowdhury, S. C. Banik, "Development of An Automatic Color Sorting Machine on Belt Conveyer," in *International Conference on Mechanical Engineering and Renewable Energy 2013 (ICMERE2013)*, 2014.
- [11] M K Islam, T Mahmud, B Salam, "Experimental Study of Forced Draft Cross Flow Wet Cooling Tower Using Splash Type Fill," in *International Conference on Mechanical Engineering and Renewable Energy 2013*, 2014.
- [12] Dibakar Bhattacharjee, Muhammed Kamrul Islam, "Development of A Paper Recycling Process," in *Proceedings of the 15th Annual Paper Meet,IEB, Bangladesh*, 2014.
- [13] Banytosh Mazumder, Muhammed Kamrul Islam, Md Masudur Rahman, M M Kamal Bhuiya, Abdullah-Al-Mamoon, Tahsin Ahmed, "Design and Fabrication of A model Solar Central Receiver Heating System," in *International Conference on Mechanical Engineering and Renewable Energy 2013 (ICMERE2013)*, 2014.
- [14] A. Z. M. Shariful Alam, Muhammed Kamrul Islam, Md. Y ousuf Mia, Kazi Afzalur Rahman, "Simulation on Heat Transfer Enhancement in A Circular Tube for Laminar Flow With and Without Insert," in *International Conference on Mechanical Engineering and Renewable Energy 2013*, 2014.
- [15] M K Islam, M T Islam, M R Islam, "Design and Fabrication Of A Simple Line Follower Autonomous Robot With Magnetic Gripper," *International Conference on Mechanical Engineering and Renewable Energy 2013, Chittagong University of Engineering and Technology,Chittagong, Bangladesh; 2014*
- [16] N. Nahar, M. A. Wazed, M. S. Rabbi, M. K. Islam, "Design and Fabrication of a Cost Effective Cyclone Separator," in *5th BSME seminar on thermal energy*, 2012.

➤ **Research Interest**

Engineering Mechanics, Vehicle Dynamics, Renewable Energy, Operation Reserach, Fuzzy modeling and Industrial Engineering.

➤ **Professional Experiences**

Assistant Professor

Department of Mechanical Engineering
Chittagong University of Engineering & Technology

July 2016 to present

Lecturer

Department of Mechanical Engineering
Chittagong University of Engineering & Technology

Dec. 2013 to June 2016

Lecturer

Department of Textile Engineering
Atish Dipankar University of Science & Technology

June 2013 to Nov. 2013

Assistant Manager

Research & Development, DPL, Rfl plastic Limited,
Pran-Rfl Group, Dhaka, Bangladesh

Dec. 2012 to April 2013

➤ **Computer Literacy**

Design Software: Auto-CAD, MATLAB, Solid Works.

Programming Language: Fortran, C, and C++.

Others: MS Office packages, Adobe Illustrator, Adobe Photoshop.

➤ **Awards & Achievements**

January, 2016 Prime Minister Gold Medal Award 2012

May, 2010 Merit Award 2010, CUET ex-students Association

2008-2012 Technical Scholarships, CUET

➤ **Referees**

<p>Dr. Md. Tazul Islam <i>Professor</i> Department of Mechanical Engineering Chittagong University of Engineering & Technology, Chittagong-4349, Bangladesh. Contact No.: +8801713109888 E-Mail: tazul2003@yahoo.com</p>	<p>Dr. Sajal Chandra Banik Visiting Professor, Vel Tech University, Chennai, India Professor, Department of Mechanical Engineering Chittagong University of Engineering & Technology, Chittagong-4349, Bangladesh. Contact No.: +919748672377(India), +8801821781456(BD) E-Mail: baniksajal@cuet.ac.bd</p>
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I hereby declare that to the best of my knowledge and belief, the above information are composed by me, and correctly present my qualifications and experiences.



Muhammed Kamrul Islam