

# RESUME

## MD. KAMRUL HASAN

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### Career Objectives:

To secure a job position with an organization offering long-term career and advancement opportunities in which my education, experience and skills can make a positive contribution.

### Academic Qualification:

Exam Title	Institute	CGPA	Year of Passing	Position
B.Sc in EEE	Chittagong University of Engineering and Technology (CUET)	3.86 out of 4.00	2017	4th
H.S.C.	Noakhali Government College	5.00 out of 5.00	2011	
S.S.C.	Noakhali Zilla School	5.00 out of 5.00	2009	

### Final Year Thesis:

Thesis Title: **Modeling and Simulation of Highly Efficient Amorphous Silicon Solar Cells.**

Supervision by: Dr. Mahmud Abdul Matin Bhuiyan  
Professor  
Department of Electrical & Electronic Engineering  
Chittagong University of Engineering and Technology

**Description:** Modern era is looking at the sustainable energy for a permanent solution to the future power demand all over the world. To fulfill current world energy needs, solar energy has potentiality more than we need but the big problems are cost and efficiency. So we need module which gives more efficiency and one way is to increase the individual cell efficiency. Our main objective of this work is to design highly efficient amorphous silicon solar cells. This research reviews the efficiency comparison between single and multijunction solar cell based on amorphous silicon solar cells. Single and double junction solar cell has been analyzed, designed and investigated in this thesis utilizing wx-AMPS software. The conversion efficiency of cell is investigated with varying thickness, band gap and doping concentration of each layer.

## Undergraduate Project:

- Intelligent Object Detection and Switching.
- Digital DC Voltmeter Design in Proteus and Implemented On PCB.
- Light Intensity and Pattern Control with Microcontroller.
- Electrical Design and Load Calculation of a Building.
- Design of a Frequency Shift Keying Demodulator.

## Training:

<b>01</b>	<b>Training Title:</b> Industrial Technology on Electrical Engineering and Instrumentation. <b>Institute:</b> Training Institute for Chemical Industries (TICI) <b>Duration:</b> 21 Days
<b>02</b>	<b>Training Title:</b> LICT Top Up IT. <b>Institute:</b> ICT Division, Bangladesh Computer Council. <b>Duration:</b> 6 month.

## Industrial Tour:

General Electric Manufacturing Co. Ltd.  
North Patenga, Chittagong-4204, Bangladesh

## Publication:

<b>Sl. No.</b>	<b>Name of the Journal/Paper</b>	<b>Published In</b>
01	<b>Intelligent Object Detection and Load Switching.</b>	International Journal of Advance Research, IJOAR .org Volume 5, Issue 6, June 2017, Online: ISSN 2320-9186
02	<b>Modeling and Simulation of Highly Efficient Amorphous Silicon Single Junction Solar Cell.</b>	International Conference on Mechanical Engineering and Renewable Energy (ICMERE) 2017.
03	<b>An Outlook over Electrical Energy Generation and Mixing Policies of Bangladesh to Achieve Sustainable Energy Targets - Vision 2041.</b>	International Conference on Electrical, Computer and Communication Engineering (ECCE), 7-9 February, 2019

### Organizational Skill:

<b>Certification</b>	<b>Institute</b>	<b>Location</b>	<b>From</b>	<b>To</b>
Vice President	Andromeda Space and Robotics Research Organization (ASRRO)	CUET	December 2015	November 2016
Organizing Secretary	Greater Noakhali Student Forum	CUET	October 2015	December 2016
General Member	Institute of Electrical and Electronics Engineers(IEEE)	CUET	April 2015	December 2016

### Working Experience:

<b>Name of Organization</b>	<b>Designation</b>	<b>Experience</b>	
		<b>From</b>	<b>To</b>
<b>Port City International University, Chattogram.</b>	<b>Lecturer, Department of EEE</b>	<b>May, 2017</b>	<b>Feb, 2018</b>
<b>Bangladesh Army International University of Science &amp; Technology, Cumilla.</b>	<b>Lecturer, Department of EEE</b>	<b>Feb, 2018</b>	<b>March, 2018</b>
<b>Chittagong University of Engineering &amp; Technology, Chattogram.</b>	<b>Lecturer, Department of EEE</b>	<b>March, 2018</b>	<b>Ongoing</b>

### Field of Specialization:

<b>Analysis and Design Software:</b> <ol style="list-style-type: none"><li>1. MATLAB</li><li>2. Proteus (ISIS and ARES)</li><li>3. Cadence</li><li>4. Auto CAD</li><li>5. PSpice</li><li>6. AMPS</li></ol>	<b>Programming Language:</b> <ol style="list-style-type: none"><li>1. C</li><li>2. MikroC</li><li>3. HTML</li><li>4. CSS</li><li>5. PHP</li><li>6. Javascript</li><li>7. Web Design</li></ol>
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### Language Proficiency:

- Bengali
- English

## **Reference:**

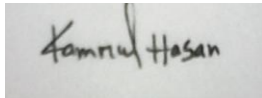
- (1) Name: Dr. Mahmud Abdul Matin Bhuiyan  
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- (2) Name: Dr. Quazi Delwar Hossain  
Position: Professor, Department of Electrical and Electronic Engineering  
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Declaration:

I hereby declare that the above information is true and correct to the best of my knowledge.

Yours Faithfully

Md. Kamrul Hasan



Signature of the applicant