

# FATEMA TUZ ZOHORA

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## CAREER OBJECTIVES

I would like to introduce myself as a passionate young professional who has enthusiasm to have an exceptional career. I would prefer to do such jobs where my internal qualities can be illuminated and favored. Through long efforts and performance regularity I am highly focused to achieve my goal.

## JOB EXPERIENCE

**Institution** Port City International University  
**Address** 7-14, Nikunja Housing Society, South Khulshi, Chittagong, Bangladesh  
**Designation** Lecturer  
**Department** Electrical & Electronic Engineering  
**Experience** 01 September 2015 to present

**Institution** KDS Steel Ltd.  
**Address** Oxygen Circle, Chittagong  
**Designation** Trainee Design Engineer  
**Department** KDS Heavy Engineering  
**Experience** 01 September 2014 to 30 August 2015

## EDUCATION

- **M.Sc.** in Electrical and Electronic Engineering, **Chittagong University of Engineering & Technology (CUET)**, Chittagong. (Ongoing)
- **B.Sc.** in Electrical and Electronic Engineering, **Chittagong University of Engineering & Technology (CUET)**, Chittagong. CGPA: **3.56 out of 4.00** (December 2013)
- **HSC**, Science, 2008, **Govt Hazi Mohammad Mohsin College**, Chittagong. GPA: **5.00 out of 5.00**
- **SSC**, Science, 2006, **Dr. Khastagir Govt Girls High School**, Chittagong. GPA: **5.00 out of 5.00**

## KEY UNDERGRAD COURSES

- Microprocessor & Interfacing
- VLSI Technology
- Digital Electronics
- Semiconductor physics & devices
- Control Systems
- Signal & Systems
- Digital Signal Processing
- Electromagnetic Field

- Electronic Communication
- Microwave and Antenna Engineering
- Power System Analysis
- Power Electronics
- Renewable Energy Conversion
- High Voltage Engineering
- Science of Materials

## AREA OF INTEREST

Renewable Energy Conversion, Electronics, Electronic Communication

## AREA OF TECHNICAL EXPERTISE

<b>Application Packages</b>	: Microsoft Office Word, Microsoft Office Excel, Microsoft Power Point
<b>Hardware Programming</b>	: Arduino Uno, Intel 8085, Microprocessors, Electronics Circuit design
<b>Engineering Analytic Tools</b>	: Matlab, VLSI (Cadence, DSCH, Microwind), PSPICE, AMPS, AutoCAD, PLC.
<b>Programming Language</b>	: C/C++

## PUBLICATIONS

- **Paper title:** Optimization of High Performance CIGS Solar Cells with Different Buffer Layers. (1<sup>st</sup> Author)
- **Conference:** ICMERE 2017
- **Reference:** [www.cuet.ac.bd/icmere/files2017f/ICMERE2017-PI-203](http://www.cuet.ac.bd/icmere/files2017f/ICMERE2017-PI-203).
- **Paper title:** Simulation and Optimization of High Performance CIGS solar Cells. (1<sup>st</sup> Author)
- **Conference:** ICMERE 2015
- **Reference:** [www.cuet.ac.bd/icmere/ICMERE%202015%20Proceedings/session\(A\)/ICMERE2015-PI-138](http://www.cuet.ac.bd/icmere/ICMERE%202015%20Proceedings/session(A)/ICMERE2015-PI-138).

## RESEARCH EXPERIENCES

- **Title:** Simulation, optimization and fabrication of High Performance CIGS solar cells with different buffer layers.
- **Project Description:** To simulate, optimize and fabricate a highly efficient four layer CIGS solar cells. CIGS thin film hetero-junction solar cell simulation performed on influence and choosing optimal condition for all parameters after observing the performance over a wide range of parameter variation. The proposed model provides simulator efficiency of 23% from simulation by AMPS- 1D simulation software.
- **Platform:** AMPS-1D, RF Sputtering.

## PROJECT WORKS

- War Surveillance Robot
- A Microprocessor Controlled Door Lock System
- Smartphone Based Robotic Arm
- A Home Security and Gas Leakage Alert System Using GSM Module

## MEMBERSHIP

Member of Institute of Engineers, Bangladesh – **Membership no: M/39206**

## TRAINING AND INDUSTRIAL TOUR

Undergone 21 days training at Training Institute for Chemical Industries (TICI), Narshingdi, Bangladesh.

- Attended a study tour on Raozan Tap Biddyut Kendro, Chittagong
- Attended a study tour on Modunaghat Power Substation, Chittagong
- Attended a study tour on Bangladesh Navy Dockyard, Chittagong

## EXTRA CURRICULUM ACTIVITIES

- Member of “JOYODDHONI” (A cultural group at CUET)
- Participated in “Bangladesh Math Olympiad Preliminary round, 2006”.
- Debating, Anchoring, Program Organizing.

## ACHIEVEMENTS

- **Scholarship (2009-2013)**  
Grade: General  
Higher Secondary Certificate Examination (HSC)  
Chittagong Board
- **Scholarship (2007-2008)**  
Grade: General  
Secondary School Certificate Examination (SSC)  
Chittagong Board

## PERSONAL PARTICULARS

Name	: Fatema Tuz Zohora
Father's Name	: Advocate Md Abu Zafar
Mother's Name	: Anowara Begum
Spouse	: Capt Shafquat Hasan Noor, Officiating Officer Commanding, 118 Field Workshop Coy EME, Mainamati Cantt
Spouse's Address	: Station Officers' Mess A, Mainamati Cantt, Cumilla
Nationality	: Bangladeshi
Religion	: Islam
Martial Status	: Married
Present Address	: 'UTTARAN', 141, Mohammadpur, West Sholashahar, Chittagong.

## REFERENCES

**Dr. Mahmud Abdul Matin**

Professor and Dean  
Department of EEE,  
Chittagong University of Engineering &  
Technology,  
Cell: 01713109853  
E-Mail: imamatin@yahoo.com

**Dr. Quazi Delwar Hossain**

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( Fatema Tuz Zohora )