Farzana Akter Sohaly

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RESEARCH INTEREST

Nanotechnology, Semiconductor technology, Material Science and related areas.

EDUCATION

2017 M.Sc. in Electrical and Electronic Engineering

University of Dhaka, Bangladesh

(CGPA 3.79 on a scale of 4.00. Merit Position: 5th)

2015 B.Sc. in Electrical and Electronic Engineering

University of Dhaka, Bangladesh (CGPA 3.48 on a scale of 4.00)

2010 Higher Secondary School Certificate: Science

BAF Shaheen College--- Dhaka, Bangladesh

(GPA 5.00 on a scale of 5.00)

2008 Secondary School Certificate: Science

Shaheed Police Smrity College --- Dhaka, Bangladesh

(GPA 5.00 on a scale of 5.00)

PROFESSION

Lecturer, Full Time (February, 2019-Present)

Served Courses: Physics, Digital System Design (DSD), Computer Architecture, Digital Signal Processing (DSP), Electrical and Electronic Circuit (EEC) etc.

Department: Computer Science and Engineering (CSE)

Institute: Institute of Science Trade & Technology under National University

Dhaka, Bangladesh

UNDERGRADUATE PROJECT

- 'Design and Development of an Obstacle Avoiding Robo-Car' under the supervision of Dr. Md. Shafiul Alam, Professor, Department of EEE, University of Dhaka.
- Used Arduino.cc software for the programming.

M.Sc THESIS

- Research Student at Bangladesh Atomic Energy Center (BAEC).
- Worked on Sn doped ZnS Thin Films using Chemical Bath Deposition technique.
- Studied detailed structural, morphological, optical and electrical properties.
- SEM, XRD, FTIR, EDX, Thickness Profilometer, UV-Vis-NIR Spectroscopy, Four Point Probe (FPP) characterization tools to investigate the properties.
- Used Origin, Excel, ImageJ, Vesta software to analyze data.

PUBLICATIONS

- 1. Investigation of Structural and Optical Properties of CdS, ZnO, ZnS Thin Film for Heterojunction Solar Cell; T. Kamal, **F. A. Sohaly** [International Journal for Research in Applied Science and Engineering Technology (IJRASET), Volume 06, Issue X, PP- 720-725, October 2018]
- 2. Structural and Optical Properties of Sn doped ZnS Thin Films Synthesized by Chemical Bath Deposition Method; F.A. Sohaly, K. M. A. Hussain, M.T. Chowdhury, S. M. Ullah [[International Conference on Material Science and Semiconductor Devices (ICMSSD) 2018]
- 3. Structural and Electrical Characterization of Sn Doped ZnS Thin Films Synthesized by Chemical Bath Deposition F. A. Sohaly, K.M.A. Hussain, M.T. Chowdhury Hussain, T. Faruqe, S.M. Ullah [INTERNATIONAL CONFERENCE ON PHYSICS-2018 Organized by BANGLADESH PHYSICAL SOCIETY at Department of Physics, University of Dhaka]

- 4. *Design and Development of an Obstacle Avoiding Robo-Car* Iffat Arefa, **Farzana Akter Sohaly** [Student conference on science and Engineering-2017 organized by IEEESBDU-DUSS, University of Dhaka, Bangladesh]
- 5. Energy Auditing: Necessity for Energy Management System (Mahedi Hassan, Nahid Hassan, Md. Murad Miah, Farzana Akter Sohaly, Iffat Arefa and Zahid Hasan Mahmood) published in [2nd International Conference on Mechanical, Industrial and Energy Engineering (ICMIEE-2014) at KUET, Paper's code: ICMIEE-PI-140379]

TRAININGS

• Course on Microcontroller

Institute: Engineering Staff College, Dhaka, Bangladesh

Duration: From 28 May 2014 to 21 June 2014
36 hours (12 lectures including laboratory work)
Web Programming Using PHP MvSOL

Institute: Institute of Information Technology (Under University of Dhaka)

Duration: From March 2014 to May 2014.

36 hours (12 lectures including laboratory work and a project at the end of the course)

AREA OF EXPERTISE

Programming Software: C++, PHP

Application Software: Origin, MS Word, MS Excel, MS PowerPoint, HTML

• Simulation Environment: MATLAB, PROTEUS, VESTA, IMAGE J

LANGUAGE PROFICIENCY

• Bengali: Native

• English: English: Fluent [ILETS 6/9: Reading 5.5, Writing 6, Speaking 6, Listening 6]

RELEVANT COURSEWORK

Undergraduate: Modern Physics, Applied Optics, Semiconductor Technology, Optical Fiber Communication, Material Science, Electronic Circuits, Electronic Devices, Electromagnetic Theory and Antenna, Renewable Energy Technology, Physical Electronics & Devices, Analog Electronics, Digital Electronics, Ordinary Differential Equations, Mathematical Methods, , Linear Algebra.

Postgraduate: Solid State Physics, Nanomaterial, Material Structure Science, Optical Integrated Circuit, Characterization of Materials & Semiconductors.

LEADERSHIP AND AFFILIATIONS

- Vice Chair at IEEE Women in Engineering (WIE) affinity group, University of Dhaka for the year 2018.
- ➤ General member of Electrical and Electronics Club (EEC), Department of EEE, University of Dhaka for the year 2012-17.
- > Volunteer at 2017 IEEE International Conference on Imaging, Vision & Pattern Recognition (icIVPR)
- Member and Volunteer at IEEE Women in Engineering (WIE) affinity group, University of Dhaka from the year 2016-2018.

REFERENCES

1. SK. Mamunur Rashid

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Department of Computer Science
& Engineering
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2. Dr. Saeed Mahmud Ullah Associate Professor Department of Electrical and Electronic Engineering, University of Dhaka Faculty of Engineering and Technology University of Dhaka Dhaka-1000, Bangladesh

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