

# A. B. M HASAN TALUKDER

Dept. of Electrical and Electronic Engineering, University of Dhaka, Dhaka-1000, Bangladesh

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## EDUCATION

### M.Sc. in Applied Physics, Electronics & Communication Engineering

2011

UNIVERSITY OF DHAKA

Dhaka, Bangladesh

- Obtained **GPA 4.00** on a scale of 4
- **First** position among 18 students in the class

### B.Sc. in Applied Physics, Electronics & Communication Engineering

2010

UNIVERSITY OF DHAKA

Dhaka, Bangladesh

- Obtained **CGPA 3.95** on a scale of 4
- **First** position among 73 students in the class
- Received the **Dean's Excellence Award**, the most prestigious award in the University

### Higher Secondary Certificate in Science

2006

NOTRE DAME COLLEGE

Dhaka, Bangladesh

- Obtained **GPA 5.00** on a scale of 5

### Secondary School Certificate in Science

2004

SHANARPAR SHEIKH MORTOZA ALI HIGH SCHOOL

Naryanganj, Bangladesh

- Obtained **GPA 5.00** on a scale of 5
- **Board Talent** in Dhaka Board

## EXPERIENCE

### UNIVERSITY OF DHAKA

Dhaka, Bangladesh

LECTURER, DEPT. OF ELECTRICAL AND ELECTRONIC ENGINEERING

Dec 2014 - Present

- Conducted the courses - Microwave & Satellite Communication, Electrical Circuit Analysis, Electromechanical Energy Conversion
- Performed the responsibilities of Student Adviser
- Worked as the Moderator of Electrical & Electronics Club, University of Dhaka

### UNIVERSITY OF DHAKA

Dhaka, Bangladesh

LECTURER, DEPT. OF BIOMEDICAL PHYSICS & TECHNOLOGY

June 2014 - Dec 2014

- Conducted the course - Biomedical Signal Processing
- Worked in the Organizing Committee of Project Exhibition on University Day 2014

### EAST WEST UNIVERSITY

Dhaka, Bangladesh

ADJUNCT FACULTY, DEPT. OF COMPUTER SCIENCE & ENGINEERING

May 2015 - Present

- Conducted the courses - Signals and Systems, Introduction to Computers

### BRAC UNIVERSITY

Dhaka, Bangladesh

LECTURER, APPLIED PHYSICS, DEPT. OF MATHEMATICS & NATURAL SCIENCES

May 2014 - June 2014

- Conducted the courses - Solid State Physics, Material Science, Renewable Energy Technology

## HONORS & AWARDS

2014	<b>UGC MERIT AWARD</b> , University Grant Commission	Dhaka, Bangladesh
2014	<b>PRIME MINISTER GOLD MEDAL AWARD</b> , University Grant Commission	Dhaka, Bangladesh
2012	<b>DEAN'S EXCELLENCE AWARD</b> , Faculty of Engineering & Technology, University of Dhaka	Dhaka, Bangladesh
2012	<b>DEAN'S AWARD</b> , Faculty of Engineering & Technology, University of Dhaka	Dhaka, Bangladesh
2012	<b>NATIONAL SCIENCE &amp; TECHNOLOGY (NST) FELLOWSHIP</b> , Ministry of Science & Technology	Dhaka, Bangladesh
2012	<b>BEST PRESENTER AWARD</b> , Int'l Conference on Informatics, Electronics & Vision (ICIEV)	Dhaka, Bangladesh
2005	<b>EDUCATION BOARD SCHOLARSHIP (BOARD TALENT)</b> , Dhaka Education Board	Dhaka, Bangladesh
2002	<b>JUNIOR SCHOLARSHIP (TALENT POOL)</b> , Dhaka Education Board	Dhaka, Bangladesh

## RESEARCH

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### EXPERIENCE

- 2016 **Absorption and Scattering Cross-Sections of Au/AlGaAs/GaAs Core-Multishell Nanowire**
- 2016 **Wideband Metamaterial Absorber based on Titanium**
- 2015 **Effect of energy window width & peak shift on SPECT images to evaluate false diagnosis**
- 2013 **SP Resonance & Local Electric Field Intensity in Metallic NWs with Various Dimensions**
- 2011 **Optical Wave-length Division DEMUX Based on Photonic Crystal Architecture**

### PUBLICATIONS

Mohammad Belal Hossain; Hasan Talukder, Design, Simulation and Characteristics Analysis of Wideband Metamaterial Absorber Based on Titanium, International Journal of Signal Processing, Image Processing and Pattern Recognition, Vol. 9, No. 9, pp. 369-378, ISSN: 2005-4254

Mahidul Haque Prodhan; Hasan Talukder; Fazlul Huq; Zahid Hasan Mahmood, Study of the effect of energy window width and peak shift on SPECT images to evaluate false diagnosis, Iranian Journal of Nuclear Medicine, Print ISSN: 1681-2824, Online ISSN: 2008-2509

Talukder, A. B. M Hasan; Faruk, Md. Omar; S. Rafique, Analysis of Silver and Gold Nanowires to Determine the Effect of Diameter Change on Cross-sections and Local Electric Field Intensity, International Journal of Electronics & Informatics (IJEI), ISSN: 2186-0114

Parvez Arnob, M.M; Talukder, A. B. M Hasan; Faruk, Md. Omar; Tisa, T. A.; Mahmood, Z. H., Design & Simulation of an Optical Wavelength Division Demultiplexer based on Photonic Crystal Architecture, IEEEExplore (International Conference on Informatics, Electronics & Vision), ISBN: 978-1-4673-1153-3

## EXTRACURRICULAR ACTIVITY

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### STUDENT ADVISER

DEPT. OF ELECTRICAL AND ELECTRONIC ENGINEERING

*Sept. 2015 - Present*

- Provides counseling to the students regarding studies
- Coordinates different extracurricular activities of the students
- Coordinates department-based different programs including Project showcasing, Poster presentation, Circuit contest, Annual picnic, Annual study tour, etc.

### TEAM LEADER

*India*

ANNUAL STUDY TOUR

*Dec 2015*

- Tour Coordinator

### CRICKET PLAYER

*Dhaka, Bangladesh*

DHAKA UNIVERSITY TEACHERS' CRICKET LEAGUE

*Jan 2015 - Present*

- Member of the Runner-up Team

## ADDITIONAL INFORMATION

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### LANGUAGE SKILLS

Native Bengali  
Medium of Instructions English

### TEST SCORES

TOEFL 93 [R: 25, L: 21, S: 23, W: 24]  
GRE 310

**COMPUTER SKILLS** C, Assembly Language Programming, MATLAB, FDTD Simulations