

Md. Redwan Islam

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Career Objective

Want to develop my career as a professional computer engineer and researcher in the field of IoT, image processing, computer network, data analytics, computer vision, machine learning, deep neural network, AI, cyber-physical systems, cloud computing, robotics, software and web development.

Educational Background

2019- Present

UNIVERSITY OF GEORGIA

Ph.D. Student, Department of Computer Science (enrolled in Spring 2019)

- **Research Assistant, Department of Computer Science (January - May)**
- **Teaching Assistant, Department of Computer Science (June - July)**

2011 - 2016

BANGLADESH UNIVERSITY OF ENGINEERING & TECHNOLOGY

B.Sc. in Electronics and Electrical Engineering (CGPA 3.23 on a scale 4.00)

- Major in Communication, Minor in Electronics
- Undergraduate Thesis Topic: ECoG and EEG signal classification for Brain Computer Interfacing.

Skills and Abilities

- **EMBEDDED SYSTEM:** Atmel Studio 7, Intel Edison, Arduino, Keil, Emu 8086
- **PROGRAMMING LANGUAGE:** C, C++, C#, Python, MATLAB, Simulink, Verilog HDL, System Verilog, 8086 Assembly, 8051 Assembly, Processing 3, Scala, Bootstrap, Java, Android, Swift, R, Visual Basic, Shell script
- **WEB TECHNOLOGIES:** HTML, CSS, javascript, jquery, AJAX, PHP, MySQL, Node.js, Codrops, MongoDB
- **DATACENTER H/W, S/W:** Dell Poweredge R430, WYSE 3010, WYSE 3040, Azure, AWS
- **GRAPHICS DESIGN:** AutoCAD, VrealM Builder, SketchUp, SVG,
- **CIRCUIT AND DIGITAL SYSTEM SIMULATORS:** PSpice, Proteus, MultiSim, Quartus-II
- **OTHER COMPUTER SKILLS:** Microsoft Word, Excel, PowerPoint, Visio, Access, LaTeX, Unity, Wireshark, ModelIO, Wordpress, VMWare, Docker, Android Studio, SPSS, Laravel, DataBase Management, Anaconda, Cordova, Linux CentOS and RedHat, Cadence Tools
- **Language Skills:** Expert in written and verbal communication in both English and Bengali.

Publication(s):

1. **M. R. Islam, U. Fatema, M. I. H. Bhuiyan and S. K. Bashar, "Classification of electrocorticography based motor imagery movements using continuous wavelet transform," 2016 IEEE Students' Technology Symposium (TechSym), Kharagpur, 2016, pp. 13-17.**

Experience and Corporate Projects:

- **University of Georgia:**
 - **Post: Graduate Research Assistant**
 - Completed Greenhouse sensor installation
 - R & D on Vernier sensors and API
 - Research on Social IoT
 - **Post: Graduate Teaching Assistant**
 - TA for Data Mining and Discrete Math
 - **Part-Time on Campus:**
 - Voluntary Instructor for Summer Gaming Camp using Unity
- **Spectra International Limited**
 - **Post: Satellite Operation Engineer**
 - Working as a subcontracting Thales Local Maintenance and Support Computer Engineer for Bangabandhu Satellite -1 project of Thales Alenia Space.
 - Participate in BS1 training for computer engineer in Cannes and Toulouse.
 - Hardware and Software deployment in the SOCC and NOCC cabinets of Gazipur and Betbunia site.
 - Testing and debugging software issues of different tools.
 - Witting Installation and Maintenance procedures for BS1 Servers, Switches, Routers.
 - Training BTRC Installation and Maintenance Engineers
- **DataSoft Systems Bangladesh Limited**
 - **Post: Trainee Software Developer (IoT)**
 - **Completed Projects:**
 - Survey Website for Japan DataSoft
 - Anti-theft System for Motorbikes
 - R & D on camera based QR scanning.
 - Scala and C# based API analysis for Fingerprint device.
- **Freelancer.com**
 - (ECoG feature extraction and classification) Clitent Location: India.
 - Genetic Algorithm simulation Client Location: India
 - Amplifier circuit simulation in LabView Clinent Location : Canada

Project Shows and Achievements

- **Achievements:** Participated in ESONANCE 2014 and secured 3rd Position in MATLAB Coding Challenge.
- **Newspaper Articles:** <http://epaper.prothom-alo.com/view/dhaka/2014-06-06/32> (lower left corner article)
- <http://www.eduicon.com/Feature/Details/328.html>

Project Participations:

- Participated in ICEEICT project show 2014 with my project JPG to Text Converter.
- Participated in ESONANCE 2014 with the project Braille Keyboard.
- Participated in EEE day 2014, Inter University Project Show with the project JPG to Text Converter.
- Participated in EEE Day 2015 Project Show with the projects Braille Keyboard & Speed Control of a DC Motor Deployed on a Smart Car
- Participated in ICT Expo 2015 with the project Braille Keyboard.

Academic Projects

- "Greenhouse Installation" in University of Georgia Research facility.
- "Cafeteria Ordering System" as a part of Software Engineering course in UGA
- "Graphic Transformation Demo Tool" as a part of Computer Graphics course in UGA
- "Custom TraceRoute" as a part of Computer Network course in UGA.
- "Braille to Text Decoder" in "Digital Electronics Laboratory" in BUET
- "Speed Control of a DC Motor Deployed on a Smart Car" in "Control System Laboratory" in BUET
- "Design of 4 bit ALU with shifter using Cadence Virtuoso Design Environment" and "Design and Layout of a 3 input XOR gate using Cadence Virtuoso Design Environment with minimum Area and propagation delay" in "VLSI I Laboratory" in BUET
- "Top down and Bottom Up design of an n-bit general purpose shift register using Cadence Encounter RTL & Cadence Virtuoso Design Environment" in "VLSI II Laboratory" in BUET
- "Infrared Emitter-Detector and Arduino based low cost Heart Rate Monitor" in "Biomedical Instrumentation Laboratory" in BUET
- "Complete Fittings and Fixtures Layout, Conduit Layout, Switch-Board Connection Diagram, Distribution Board Connection Diagram of a Two- Story Residential Building." in "Electrical Services Design" in BUET
- "Calculation of Transmission Line Parameters of a Given Transmission Line" in "Power System I Laboratory" in BUET.

References

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