Ahsan-ul Kabir Shawon

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Address: House#19, Road#15, Block#F, Bashundhara R/A, Dhaka

Objective

I want to implement my academic knowledge and organizational skills in professional sector with dedication, honesty and responsibility. So, that I can contribute significant to my employer enriching my knowledge and skills.

Work experience

IUB   February 2017 — January 2019
Undergraduate Research Assistant

RoboDocBD   February 2019 — July 2019
R&D Officer

IUB   Dec 2019 — Present
Graduate Research Assistant

Area of Expertise

HARDWARE EXPERTISE

- Analog circuit design in PCB (using discrete components), Raspberry Pi, Adriano UNO/Nano/Mega/DUE, PIC Microcontroller
- Embedded Systems & Interfacing with PC/Laptop
- Power Supply design for different systems
- GPS Module, GSM Module, ESP 8266, Bluetooth Module,
- IoT Based Fingerprint Attendance System
- Neurosky Mindwave, Emotiv Epoc
- Multi-Bio Signal Recording Device

SOFTWARE EXPERTISE

- Utility/Engineering Tools: PSIM, Adriano IDE, MATLAB, Simulink, AUTOCAD 2D, Proteus
- C/C++programming, Python
- EEGLab, BCILab
- MIT App Inventor
- ERP Inventory Software

Education

B. SC in Electronics & Telecommunication Engineering   September 2014 — April 2019

Independent University, Bangladesh

Thesis: Electro-oculography (EOG) Signal Acquisition, Processing and Analyzing for Application in HCI

Higher Secondary School Certificate (H.S.C)   2012 — 2014

Cantonment Public School & College, Rangpur

G.P.A: 5 on a Scale of 5

Secondary School Certificate (S.S.C)   2012

Cantonment Public School & College, Rangpur

G.P.A: 5 on a Scale of 5

Achievements

- Champion Award at Project Showcase Competition: **International Robofest-2019, East-West University**
- Champion Award for Project Showcase Competition: **Youth Zest 2018**
- Champion Award at Inter University Project Showcase Competition: **Makers Mania 2018, IUB**
- Champion Award at Inter University Project Showcase Competition: **Science for Mankind 2018, Dhaka University**
- Champion Award at Inter University Project Showcase Competition: **ICEEICT 2018, MIST**
- Champion Award at Project Showcase Competition: **EEE Day 2018, Independent University Bangladesh**
- Champion Award for Matlab Coding Competition: **EEE Day 2018, Independent University Bangladesh**

PUBLICATIONS

- Dakua, Sagar, Alamgir Kabir Rusad, Nazmus Sakib, **Md Ahsan-Ul Kabir Shawon** , and Md Kafiul Islam."Towards Design and Implementation of a Low-Cost EMG Signal Recorder for Application in Prosthetic Arm Control for Developing Countries Like Bangladesh." In 2018 21st International Conference of Computer and Information Technology (ICCIT), pp. 1-6. IEEE, 2018.

- Bhuyain, Md Fahim, **Md Ahsan-Ul Kabir Shawon** , Nazmus Sakib, Tasnuva Faruk, Md Kafiul Islam, and Khosru M. Salim. "Design and Development of an EOG-based System to Control Electric Wheelchair for People Suffering from Quadriplegia or Quadriparesis." In 2019 International Conference on Robotics, Electrical and Signal Processing Techniques (ICREST), pp. 460-465.IEEE, 2019

- Tauhid Anwar, Mohammad Zubair, Mohammad Dehan Rahman, Nazmus Sakib, **Md. Ahsan-Ul Kabir**, Tasnuva Faruk and Md Kafiul Islam. "Design and Development of a Portable Recording System for Simultaneous Acquisition of SCG and ECG Signals." Under Review In 1st International Conference on Advances in Science, Engineering and Robotics Technology (ICASERT), 2019.

JOURNALS

- Amir Jalilifard, Dehua Chen, Aunnoy K Mutasim, M. Raihanul Bashar, Rayhan Sardar Tipu, **Ahsan-Ul Kabir Shawon**, Nazmus Sakib, M Ashraful Amin, and Md Kafiul Islam. "Spontaneous Blinking for Human Authentication" - Under Review in IET Biometrics

- Design and Development of a EOG-based System to Control Electric Wheelchair for People Suffering from Quadriplegia/Quadriparesis.
- Design and Implementation of a Low-cost EMG Signal Recorder for Application in Prosthetic Arm Control for Developing Countries.
- Development of a Seismocardiogram (SCG) Recorder and Monitoring Device Interfaced with PC through Arduino and MATLAB.
- Development of an Android-based portable ECG monitoring system for rural/remote areas of Bangladeh.
- Design and Development of a EOG-based Mouse Cursor Control System for Physically Challenged People
- Development of an EOG-based Human Authentication (Biometric) System
- Development of a Low-cost PC-based Single-channel EEG Monitoring System

Special Qualification

- Problem-solving,
- Time management,
- Organizing,
- Hard-working,
- Team work
- Research Design/ Analysis
- Analog circuit design in PCB (using discrete components),
- Digital Signal Processing
- Embedded Systems & Interfacing with PC/Laptop,
- Power Supply design for different systems
- Integrated Toy Circuit Design

Personal Information

Name: Ahsan-ul Kabir Shawon
Date of Birth: 28-12-1997
Father's Name: MD. Shakhawat Hossain
Mother's Name: Shahida Akhter
Permanent Address: Village#Digharan, Post Office#Nanderai,
　　　　　　　　　　Police Station#Chirirbandar, District#Dinajpur
Nationality: Bangladeshi.
NID No : 19972713013000599
Religion: Islam

References

Dr. Khosru M. Salim
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