Shahadat Hussain Parvez

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RESEARCH INTERESTS

Embedded Systems, Power Electronics, Electronics, Machine Learning, Big Data Analysis, Internet of Things, Cyber Security, Control Systems.

EXPERIENCE

North East University Bangladesh

- Lecturer, Department of CSE — Jan 2018 – Present

  Responsibilities
  - Conducting courses related to EEE and Creating course materials.
  - Coordinating department management related tasks like preparing Course Offer List and Routines.
  - Supervising different groups for their final year projects.

Sylhet Engineering College

- Guest Lecturer — Jul 2017 – Jan 2018

EDUCATION

Shahajalal University of Science and Technology, Sylhet, Bangladesh

- Bachelor of Science (Engg.) in Electrical & Electronic Engineering — Jan 2011 – Apr 2016
  - Thesis: Analysis and Implementation of Ćuk Topology Based Improved Power Quality Single Phase AC to DC Converter
  - Research areas: Embedded systems, Power Electronics,
  - Cumulative GPA: 3.50 / 4.00 [3rd in the batch]

A level

- Physics, Chemistry, Mathematics — Jul 2008 – Jun 2010

O level — Jan 2008

TECHNICAL SKILLS

- Programming: C, Python, Matlab, Assembly, LaTeX, Processing
- Embedded platforms: AVR, Arduino, PIC
- Simulation: Simulink, PSpice, Psim, OrCAD, Proteus, Eagle, IPSA, Neplan, Power world, Fritzing, COMSOL, AutoCad, Autodesk 123d,
- Data Analysis : R, Python, Azure ML, Excel
- Web development: PHP, HTML, CSS, Javascript, MySQL, Bootstrap, Wordpress, Joomla

PUBLICATIONS

JOURNALS

[1] J. K. Saha, S. H. Parvez and P. R. Saha, “Design and Implementation of a Compact Temperature, Heartbeat and ECG Measurement Module ”, *International Journal of Engineering Trends and Technology* , vol. 15, no. 61-1, pp. 31–35, 2018.

[2] S. H. Parvez, J. K. Saha, M. J. Hossain, H. Hussain, Md. M. A. Ghuri, T. A. Chowdhury, Md. M. Rahman, N. Z. Shuchi, A. Islam, M. Hasan and B. Paul, “A Novel Design and Implementation of Electronic Weather Station and Weather Data Transmission System Using GSM Network ”, *WSEAS Transactions on Circuits and Systems* , vol. 15, no. 4, pp. 21–34, 2016.

CONFERENCE PROCEEDINGS

[1] T.H. Talukdar and S. H. Parvez, “Small Scale Data Transmission via Light”, in *International Conference on Engineering, Research, Innovation and Education* , Sylhet, Bangladesh, Jan 2017.

[2] S.H. Parvez, Farhan A. Khandaker and Ifte Khairul Amin, “Analysis and Implementation of Ćuk Topology Based Improved Power Quality Single Phase AC to DC Converter”, in *International Conference on Engineering, Research, Innovation and Education* , Sylhet, Bangladesh, Jan 2017.

[3] S. H. Parvez, J. K. Saha, M. J. Hossain, H. Hussain, Md. M. A. Ghuri, T. A. Chowdhury, Md. M. Rahman, N. Z. Shuchi, A. Islam, M. Hasan and B. Paul, "Design and Implementation of a Effective, Portable and Scalable Electronic Weather Station", in *14th WSEAS Int. Conf. on Instrumentation, Measurement, Circuits and Systems (IMCAS '15)* , University of Salerno, Salerno, Italy, Jun 2015.

TRAINING

- Industrial Technology on Electrical Engineering & Instrumentation,Training Institute for Chemical Industries (TICI), Narsingdi Apr 2015 – May 2015
  - Duration : 1 Month, Grade : A
- Participated in numerous workshops, Project competitions and showcasing.

PROJECTS

- Analysis and Implementation of Ćuk Topology Based Improved Power Quality Single Phase AC to DC Converter
- Implementation of portable electronic mini weather station
- Biomedical Data Acquisition, Storage and Delivery System for Remote Health Monitoring
- Micro-controller based fire alarm system with extinguisher
- Implementation of submarine robot for underwater navigation and communication
- Low cost data transmission system via LED lighting with over 50 Bps speed
- Temperature logger for Biomedical Use
- Remote control Robotic Car
- Cell phone controlled mini car
- Anemometer
- Implementing Voltmeter, Ammeter and Wattmeter using microcontroller
- Digital IC Tester
- Microcontroller based clock with stopwatch and timer.
- Microcontroller based rotating POV display
- Single Phase 150 VA transformer
- Construction of a three-phase inductive load
- Designing of electrical service system of a garments floor.

LANGUAGES

- Bengali : Native language.
- English: Fluent (speaking, reading, writing).

PERSONAL DETAILS

Name	: Shahadat Hussain Parvez
Father's name	: Hedayet Hussain
Mother's name	: Parvin Akter
Date of birth	: 9th February 1991
Sex	: Male
Religion	: Islam
Nationality	: Bangladeshi

REFERENCES

- **Dr. Ifte Khairul Amin**
  Associate Professor and Head
  Department of Electrical and Electronic Engineering
  Shahjalal University of Science and Technology
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- **Dr. Nazmus Sahadat**
  Applied Scientist
  Amazon.com
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