Sharif Shahadat

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Education

Doctor of Philosophy - Instructional Technology   Started on January 2018
Northern Illinois University, Dekalb, IL

Master of Science - Electrical Engineering (3.60/4.0)   May 2017
Minor - Computer Engineering
University of New Orleans, New Orleans, LA

Bachelor of Science - Electrical Engineering (3.43/4.0)   January 2012
Minor - Computer Engineering
Ahsanullah University of Science and Technology, Dhaka, Bangladesh

Experience

Northern Illinois University — Dekalb, IL
- *Graduate Teaching Assistant*   January 2018 – Present

- Deliver a range of teaching and assessment activities including tutorials directed towards the delivery of "Computers in Education" course at undergraduate level
- Assist in observing/assessing students' progress – Kept records and consulted with educational experts to fine-tune methods used
- Manage course content through Blackboard

Eastland Travel and Tours Inc. — Jackson Heights, NY
- *IT Intern*   September 2017 – December 2017

- Supporting PC hardware & software components, and perform repairs to equipment if necessary
- Single out and execute opportunities for automating tasks for IT, managers and the team
- Performing research and evaluate products and software to assist in the selection and purchase of equipment and installation or upgrade of systems
- Improving functionality for Eastland's website, including troubleshooting and maintenance

University of New Orleans — New Orleans, LA
- *Graduate Teaching Assistant*   August 2016 – December 2016

- Coordinated with students and faculty to educate and develop student talents
- Trained and mentored students for Digital System Design class and Logic Circuits Lab
- Graded Digital Logic Lab and class

University of New Orleans — New Orleans, LA
- *Graduate Teaching Assistant*   August 2015 – May 2016

- Built student understanding in Logic Circuits and Electronics Lab
- Enhanced the educational environment by providing tutoring and mentorship
- Facilitated increased productivity through professor support activities
- Troubleshoot laboratory processes to identify and address inefficiencies

University of New Orleans — New Orleans, LA
- *Student Grader*   January 2015 – May 2015

- Graded assignments for 3 courses (Circuits-I, Circuits-II, Digital Logic Design),
- Helped students by providing detailed feedback on every assignment

Starlink Technologies Ltd — Dhaka, Bangladesh
- *Transmission Engineer*   January 2012 – February 2013

- Utilized computer-aided design software (CAD) to create system designs
- Researched potential materials, equipment and designs to fit system requirements
- Collaborated with peers and clients to determine specific system needs and requirements
- Installation and commissioning of Huawei Base Transceiver Systems
- Installation of fiber optic networks for various Interconnection Exchange (ICX) clients

Skills

Programming Languages: MATLAB and Python
Operating Systems: Windows, Linux/Unix system, MacOS
Software: NI Multisim, SPICE software, LaTeX
Laboratory: oscilloscope, logic analyzer, signal generator, solder, and multimeter

Academic Projects/Thesis

Improving a Particle Swarm Optimization-based Clustering Method (MS Thesis)
- *Individual*

- Reviewed existing data clustering algorithms
- Proposed improvements over a data clustering algorithm based on Particle Swarm Optimization
- Developed MATLAB code to do performance comparison between different algorithms.

Physical Security System Development Based on Arduino
- *Group Project*

- Fully functional home security system has been developed using Arduino
- Prototype was compact and fully functional

4-bit Microprocessor Design and Performance Analysis of Its Components
- *Group Project*

- Designed 4-bit microprocessor and simulated using DSCH2
- Analyzed and verified functions of different components of the microprocessor

Presentation/Proceedings

Shahadat, S. (2018, April). *Faculty Perspective on the Role of Academic Library for Research in an Electronic Era.* Poster session presented at the 3rd Annual College of Education Student Research Symposium, Northern Illinois University, Dekalb, IL. http://dx.doi.org/10.13140/RG.2.2.33635.04642

Activities

- Institute of Electrical and Electronic Engineers — Member
- Omicron Delta Kappa — Member (Present)
- Tau Beta Pi — Member (Present)

Awards

- Outstanding Poster Presentation award from College of Education at Northern Illinois University
- Graduate Teaching Assistantship for Fall 2015, Spring 2016, Fall 2016 & Spring 2018
- Privateer Scholarship for Fall 2014