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Dr. Hasan Sarwar

Professor, Dept. of CSE & Dean, SoSE

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Education

Ph.D. Applied Physics, Electronics and Communication Engineering, University of Dhaka. **M.Phil.** Applied Physics, Electronics and Communication Engineering, University of Dhaka. **B.Sc.Engg.* Computer Science and Engineering, Bangladesh University of Engineering and Technology (BUET).** *Higher Secondary Certificate , Dhaka College. **Secondary School Certificate** , Chittagong Collegiate School.

Research Interest

Software Engineering We are trying to develop a Software Engineering Methodology dubbed as 3D Model. The benefit of this model is that it involves less number of task phases, applicable for a small team and allows quick delivery. **Health Engineering** Here we are developing a simple model to help ICU patients by using a smart monitoring system. This will reduce the ICU stay time and improve the cure process. **Education Data Mining** Here we are investigating the teaching learning process, specially in the area of higher education, by analyzing different types of education data. This aims to improve the learning capacity of students, and teaching capacity of teachers. **Bangla OCR** Here we worked on an array of topics to develop a Bangla OCR. **Nanomaterial Development** We work with development and characterization of nanomaterials. Our last work was to develop a simple arc discharge system to develop nanomaterials in a low cost way. **Blockchain** Currently I am focusing on blockchain technology. Main goal is to ensure data security and privacy in the education domain.

Professional & Other Experiences

Director , Edusoft Consultants Ltd, focus is to develop and deploy a University Management System for the Higher Education system focused on Bangladesh. **Member** , Board of Accreditation for Engineering and Technical Education (BAETE) **Consultant** for establishing a Distance Learning Resource Center for Bangladesh University of Health Science. **Research Grant** received to build the “Mobile-Web based Electronic health records System for patient management in heart diseases” from innovation fund of 2015-16 ICT Division, Ministry of Posts, Telecommunications and IT, Government of the People’s Republic of Bangladesh of around 15500 USD, June 2016. **Research Grant** received for Preparation and Characterization of Plasmonic Metal Nanoparticles deposited on glass from United International University of around 10,700 USD, March 2016. **Research Grant** received to build the “Refreshable Digital Braille Display” from Access to Information programme (A2i) of Prime Ministers Office (PMO) of around 30000 USD, June 2015. **Research Grant** received

to build the first Bangla Optical Character Recognizer (OCR) from Access to Information programme (A2i) of Prime Ministers Office (PMO) of around 28000 USD, October 2013. **Consultant** of International Partner (IP), Kent State University, to support building Bangladesh Research and Education Network BDREN to be operated as a trust initiated under University Grants Commission, supported by World Bank. 2012 – 2016

Publication

Journal Papers

2014## Study of optical radiation efficiency of nanoparticles Applied Physics Publication: Nanoscience and Nanotechnology Letters Author List: Hasan Sarwar, Tasnia Hossain, M. Junaebur Rashid, Md. Mydul Islam 2006## Study of Transport Properties in 1D Nanostructured Semiconductor Devices using Monte Carlo Simulation Publication: COIN-NGNCON 2006 - The Joint International Conference on Optical Internet and Next Generation Network Author List: Hasan Sarwar, Shahida Rafique

Conference Papers

2020## Blockchain-based information security of electronic medical records (emr) in a healthcare communication system Blockchain Technology Conference: Lecture Notes in Networks and Systems Author List: Rafita Haque, Md. Akhtaruzzaman, Muhammad Jafar Sadeq, S. Rayhan Kabir, Hasan Sarwar, Nafisa Haque, Rokeya Forhat

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