Sarwar Morshed

Curriculum Vitae

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in sarwarmorshed04



Personal Details Nationality : Bangladeshi

Marital status : Married, and father of a 3 year old daughter

Address : Enschede, The Netherlands

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Career Objective

A challenging position where I can use my knowledge and skills into impactful innovations in the field of computer science and communications engineering. With a result oriented "Can do" attitude and pragmatic mindset, I bring my problem-solving approach together with analytic, communicative, and self-starting skills to facilitate the growth of the company.

Work Experiences

PhD Researcher in Computer Science 2012 Feb-present

University of Twente, The Netherlands

Design and Analysis of Communication Systems (DACS) Research Group (Finishing in March 2017 – Received the PhD defense date)

- Working as a researcher in the Wireless Ad-hoc Links using robust Noise-based Ultra-wideband Transmission (WALNUT) project with industry partners: *NXP*, *Thales*, *TNO*, *Plantronics*, *DevLab*, *STmicroelectronics*.
- Creation of scope for a new energy-efficient medium access control (MAC) communication protocol, TR-MAC, for low-power wireless sensor networks.
- Design and analytical modelling of the protocol features and requirements
- Building system level prototypes for feasibility and specifications using state machines and programming tools, e.g. Matlab, Python
- Proof of concept for the protocol features using C++ in the discrete event driven C++ based OMNeT++ simulator, published scientific publications
- Supervising Masters & Bachelor students for research projects (Still ongoing)
- Organized research paper reading clubs among researchers of different groups to increase collaboration
- ❖ <u>Skills used</u>: Creation of scope, Design of technical solutions, Mathematical modelling, Research, Collaboration, C++, Matlab, Python, OMNeT++

Senior Lecturer

2009 Nov-2012 Jan

Islamic University of Technology, Bangladesh

Department of Computer Science and Engineering

- Taught: Communications Engineering and Performance Evaluation
- Organized ICCIT 2010 Conference
- Supervised Bachelor students for their Bachelor thesis
- Organized and instructed in workshops, seminar and short courses

Research Assistant 2008 July-2009 Oct

Tampere University of Technology, Finland

Wireless Communications and Positioning Research Group

- Worked in EUREKA/CELTIC B21C (Broadcasting for 21st Century) project to finalize DVB-T2 (Digital Video Broadcasting - 2nd generation Terrestrial) standard through proposal implementation in Matlab and C++ based CCSS
- Data collection, analysis and testing of the DVB-T2 standard
- Analyzed Synchronization performance for DVB-T2 system

Lecturer

2005 Oct-2007 Aug

Islamic University of Technology, Bangladesh

Department of Computer Science and Engineering

- Responsible for networking lab for establishing secure systems, preparing users, designing system specification, maintaining system performance & performing scheduled updates
- Design, size, safety, security, management of University LAN
- Administrated the official university website using MySql, PHP and Apache

Education

Masters in Information Technology 2007 Sep-2009 Oct Tampere University of Technology, Finland

Wireless Communications and Positioning Research Group <u>CGPA</u>: 4.72 out of 5.00 (First class with distinction)

<u>Thesis</u>: Synchronization performance for DVB-T2 systems Skills used: Design, Modelling, C++, Matlab, C++ based CCSS simulator

Bachelor in Computer Science 2002 Jan-2005 Sep Islamic University of Technology, Bangladesh

<u>CGPA</u>: **4.96 out of 5.00** (3rd in Merit position, First class with distinction) <u>Thesis</u>: Design of a flexible grid architecture and developing applications

Skills used: C++, Linux, Application development

Higher Secondary Certificate (HSC) 1999-2001 **Notredame College, Bangladesh** *Result:* 1st Division with distinction

Marks: 88.3%

Secondary School Certificate (SSC) 1990-1999 Motijheel Model High School and College, Bangladesh

Result: 1st Division with distinction

Marks: 88.9%

Professional Skills

- Creation of scope and design technical solutions
- Mathematical and Analytical modelling
- Programming languages: C, C++, Matlab, Python
- Event driven network simulators: OMNeT++
- Familiar with Linux, Eclipse, Scrum, Git, CCSS, Simulink
- Data and web systems: PHP, MySql, Apache

Extra curricular activities

2014-2015

Activity Manager in a student organization in University of Twente

- Organized events and activities for social community events
- Facilitated integration of new students through practical support sessions

Scholarships and awards

2009

 Awarded University grant award for outstanding result in Master of Science in Tampere University of Technology, Finland

2003-2005

Received scholarship for achieving CGPA 5.00 out of 5.00 for consecutive 5 semesters during Bachelor from the University

1999 & 2001

• Government Scholarships in SSC & HSC for ranked in top 1% students

1996

• Achieved Gold medal for 'Best Student Award' in Junior level

Languages

Mother tongue: Bangla, Fluent: English (IELTS: 7), Intermediate: Dutch (B1)

Self-assessment

Analytical & Strategic, Result-driven, Responsible, Team player, Communicative

Interests

Travelling, Automotive, Sports, Reading, International history & politics

References

References can be provided upon request