Curriculum Vitae

Akond Ashfaque Ur Rahman

Personal Details

Full Name: Akond Ashfaque Ur Rahman
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Career Objective

To become an outstanding researcher in academia or industry and work diligently to promote quality research in different fields of Computer Science.

Research Interests

Human Computer Interaction, Troubleshooting Software Applications.

Education

01/2012–Present **Master of Science**
Computer Science and Engineering
University of Connecticut
CGPA Obtained: 3.83 on a scale of 4.00

12/2004–09/2009 **Bachelor of Science**
Computer Science and Engineering
Bangladesh University of Engineering and Technology (BUET)
CGPA Obtained: 3.55 on a scale of 4.00

Selected Publications

- **Akond Ashfaque Ur Rahman**, Mohammad Maifi Hassan Khan, Ryan McGivern, Brendan Heckman *Leveraging Physiological Measures to Predict Task Quality (submitted)* .
- **Akond Ashfaque Ur Rahman**, Md. Atiqul Islam Mollah, Mahmuda Naznin *Multiple Targets Tracking Using Kinematics in Wireless Sensor Networks* in Wireless Sensor Networks, SCIRP, 2011.
- **Akond Ashfaque Ur Rahman**, Mahmuda Naznin, Md. Atiqul Islam Mollah *Energy Efficient Multiple Targets Tracking Using Target Kinematics in Wireless Sensor Networks* in SensorComm, Venice, 2010.
- M.M.Shahiduzzaman, Mahmuda Naznin, **Akond Ashfaque Ur Rahman** *Portable and Secure Multimedia Data Transfer in Mobile Phones Using Record Management Store (RMS)* in 3rd IEEE ICCSIT, Chengdu, 2010.
- **Akond Ashfaque Ur Rahman**, Mahmuda Naznin, Md. Atiqul Islam Mollah *Service Priority Based Target Tracking Framework in a Wireless Sensor Network* in 3rd IEEE ICCSIT, Chengdu, 2010.

Awards & Honors

- **Dean's List Award** for academic excellence in the session 2006-2007 in BUET.
- **University Scholarship for Merit** in different semesters in BUET.

Professional Experience

- I worked in the Department of CSE, University of Connecticut as Teaching Assistant from August, 2012 to December, 2012. I taught basic MATLAB programming. My responsibilities involved providing lectures, grading homeworks, exams and monitoring labs.
- I worked in the Department of CSE, University of Connecticut as a Research Assistant from January, 2012 to July, 2012. My research work was focused on Human Computer Interaction (HCI).
- I worked in Dohatec New Media, Dhaka, Bangladesh as a Software Engineer from January, 2010 to July, 2011. I was engaged in developing software projects related to government procurement, biometrics and insurance enterprise.

Major Projects

- **Finding the Optimal Comfort Temperature of a Human using Bio Sensors** :

  This project focused on introducing a novel technique to control different thermal systems (HVAC, thermistor etc.) by detecting the optimal level of comfort temperature of a person using a wearable sensor. Instead of external factors such as air temperature, humidity, room conditions, and thermodynamics of a person this project proposed a methodology that focuses on the physiological measures and performed activity of a user. The developed project is a completely functional Android application, integrated with a wearable sensor called 'Bio Harness Kit' that provides different physiological measures of human.

- **Monitoring the effects of configuration changes on system parameters and application performance** :

  This exploratory work studied how changes made in different software parameters positively or negatively effect system and application performance. It was explored how the conïňAguration changes effect certain system parameters and application performance for two widely used applications namely Mozilla Firefox 16.0 and Apache 2.0. The study was performed in a Unix environment leveraging different Unix-based and third party tools.

- **Election Automation** : Automation of the election process of Bangladesh implemented using ORACLE and ASP.NET with C#. Covered by the Daily Prothom Alo, a Bengali daily newspaper on 12th September, 2008.
- **EKATTOR** : A complete web based information management system which has the capability to preserve the history of the liberation war of Bangladesh in 1971. Four kinds of searching privileges exist (entity wise, map wise, category wise, non-category wise). Implemented in MySQL, PDO, PHP, JavaScript.
- **Multi Modal Biometric SDK** : A software development kit which provide multi functional biometric utilities like capturing, quality checking, auto rotation, cropping etc. of biometric images like face, finger and iris. Implemented in Java using the Megamatcher 3.1 SDK tool.
- **Central Procurement Management Information System (PROMIS)** : A complete information management system developed for the Planning Ministry of the Government of People's Republic of Bangladesh. Participation in development and maintenance. Implemented in C#, ADO.NET, Microsoft SQL-SERVER 2005, Crystal Report 8.0.

Expertise

Languages	C, C++, Java, x86 Assembly Language, PROLOG, Visual C#, UML, Visual Basic, HTML, ASP, JSP, PHP, CSS, JavaScript, XML, SQL.
Operating Systems	Different variants of Unix and Windows.
Tools	Android, OMNeT++, GNUPlot, BASH Shell Scripting, LaTeX, Quartus, Pspice, Circuit Maker, Matlab, ORACLE, MySQL, Microsoft SQL-SERVER 2005, Google Sketchup.
Environments	JCreator, Microsoft Visual Studio 2003/2005/2008, JBuilder, NetBeans, Dreamweaver, SQLYog, Eclipse.