

MD. MAKSUDUL ALAM

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RESEARCH INTERESTS

Wireless Sensor Networks, Bioinformatics & Computational Biology, Distributed Systems

RESEARCH & WORK EXPERIENCE

- 2009 – Now **Senior Member**, *Research & Development Group*, Commlink Info Tech, Dhaka, Bangladesh
- 2007 – 2009 **Member**, *Research & Development Group*, Commlink Info Tech
 Working in WiMAX, BACH, DMS, IN & SIP, IVR and Mobile Banking projects.
- 2007 – 2010 Worked under Professor Md. Saidur Rahman on *Graph Modeling for Bioinformatics*. We studied various bioinformatics and graph related problems. We devised and simulated an algorithm for a DNA reconstruction problem. Our findings and simulation results were later published at BMEI's 2008 and 2010 conferences. I was also a member of *Graph Drawing Research Group*.

PUBLICATIONS

CONFERENCE PAPERS

- 2010 Alam, M.M., M.S. Bayzid, and M.S. Rahman. **A Heuristic Algorithm for Minimum Conflict Individual Haplotyping**. In *Proceedings of the conference on BioMedical Engineering and Informatics*, Yantai, China, 2010. IEEE Press. (To Appear)
- 2008 Alam, M.M., A.A. Mueen, M.S. Bayzid, and M.S. Rahman. **A Heuristic Algorithm for Individual Haplotyping with Minimum Error Correction**. In *Proceedings of the conference on BioMedical Engineering and Informatics*, Sanya, Hainan, China, 2008. IEEE Press.

EDUCATION

- 2008 **B.Sc.**, in *Computer Science and Engineering*
Bangladesh University of Engineering and Technology, Dhaka.
 CGPA: 3.82/4.00, Major CGPA: 3.87, Senior Year Major CGPA: 3.93
- 2002 **Higher Secondary Certificate**, in *Science*
Notre Dame College, First Division
- 2000 **Secondary School Certificate**, in *Science*
Sher-e-Bangla Nagar Govt. Boys' High School, First Division

PROFESSIONAL PROJECTS

SOFTWARE PROJECTS

- 2007 – 2008 **WiMAX Base Station:** *Development of WiMAX Basestation on **Intel Glenfield** baseband card.*
- 2009 – 2010 **Bangladesh Automated Clearing House:** *Deployed to two major banks in Bangladesh.*
- 2009 – 2010 **Document Management System:** *A web-based solution for managing office documents.*
- 2008 **Mobile Banking & Electronic Fund Transfer:** *Mobile client & server according to **BEFTN** rules.*
- 2008 **Network Management System:** *Customization of **OpenNMS** for network management.*

HARDWARE PROJECTS

- 2009 **Interactive Voice Response:** *An IVR solution for content providers for Telecom sectors.*

ACADEMIC PROJECTS

SOFTWARE PROJECTS

- 2007 **Hospital Management System:** ***System Analysis & Design** project for City Hospital, Bangladesh.*
- 2007 **Amusement Park with Roller Coaster:** ***Computer Graphics** term project.*
- 2005 **Departmental Store Management System:** ***Database** term project with extensive reporting.*
- 2005 **Text Editor for a Text Mode OS:** ***Assembly Language** term project in MASM.*
- 2004 **PC²:** *Mimicking the functionality of popular PC² software for organizing online contests.*
- 2003 **Barcode Generator & Product Manager:** *Coded in C, with EAN-13, UPC, Code39 support.*

HARDWARE PROJECTS

- 2007 **Electronic Voting System:** ***Computer Interfacing** term project using AT8951ED2 μ controller.*
- 2007 **4 Bit Microprocessor Design and Implementation:** ***Digital Systems Design** term assignment.*

HONORS & AWARDS

- 2002 – 2007 Included in the Dean's List of Students for all completed semesters.
Awarded University Merit Scholarship for academic excellence.
- 2002 Awarded Perfect Attendance Certificate in Notre Dame College.
- 1998 Awarded Government Scholarship in Junior Scholarship Examination.

SKILLS

Languages: C/C++, Java, C#, Javascript, PHP, Python, SQL, Assembly, Prolog, Shell, Perl

IDE: Microsoft Visual Studio, Eclipse, NetBeans, JBuilder, XCode

Frameworks: Microsoft .NET, J2EE, Cocoa, Zend Framework, WCF, Django, App Engine, GWT

DBMS: Oracle, MySQL, MS SQL Server, SQLite, PGSQL

Simulation: MATLAB, isPLEVER, PSpice, Microwind, Quartus, RouterSim

Documentation: \LaTeX , \LaTeX , Microsoft Office

Miscellaneous: OpenGL, AutoCAD, GIMP

REFERENCE

Dr. Md. Saidur Rahman (saidurrahman@cse.buet.ac.bd), Professor, Dept. of CSE, BUET.

Dr. Md. Humayun Kabir (mhkabir@cse.buet.ac.bd), Assoc. Professor, Dept. of CSE, BUET.