Md. Ehtesamul Haque

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Objective

To build a career in the field of academia and to contribute to the development of humanity through computer science research.

Education

M.Sc. in Computer Science and Engineering, Bangladesh University of Engineering and Technology (BUET), June 2009 (Expected), current CGPA: 4.00 (out of 4.00), ranked 1st among 90 students.

B.Sc. in Computer Science and Engineering, Bangladesh University of Engineering and Technology (BUET), November 2006, CGPA: 3.95 (Major: 3.98) (out of 4.00), ranked 4th among 118 students.

Area of interest

Algorithms, Graph Theory, Computational Geometry, Wireless Ad-hoc Networks, Wireless Sensor Networks.

Research Experience

August 2007 – Present: Worked with Dr. A. K. M. Ashikur Rahman on
- "Energy Efficient Fault Tolerant Wireless Networks".

December 2006 – April 2007: Worked with Dr. Md. Humayun Kabir on
- "Network Processors".

July 2005 – November 2007: Worked with Prof. Dr. Abul Kashem Mia on
- "On-Line Algorithms for Rankings of Graphs".

Work Experience

- November 2006 – Present: Lecturer, Department of Computer Science and Engineering, BUET.
- July 2000 – December 2000: Lab assistant, Physics Lab, Notre Dame College, Dhaka, Bangladesh.

Publications

1. Muntasir Raihan Rahman, Md. Abul Kashem, **Md. Ehtesamul Haque**, *An Efficient On-Line Algorithm for Edge-Ranking of Trees*, INFOCOMP Journal of Computer Science, pp. 21-25, Vol. 7, num. 2, 2008.

2. Muntasir Raihan Rahman, **Md. Ehtesamul Haque**, Maeenul Islam, Md. Abul Kashem, *Efficient On-Line Algorithms for Vertex-Rankings of Graphs*, submitted to a journal.

3. Muntasir Raihan Rahman, **Md. Ehtesamul Haque**, Maeenul Islam, Md. Abul Kashem, *On-Line Algorithms for Vertex-Rankings of Graphs*, Proc. of the International Conference on Information and Communication Technology (ICICT 2007), pp. 22-26, 2007.

4. Muntasir Raihan Rahman, Md. Abul Kashem,**Md. Ehtesamul Haque**, *An On-Line Algorithm for Edge-Ranking of Trees*, Proc. of the 9th International Conference on Computer and Information Technology (ICCIT'06), IUB, pp. 51-54, 2006.

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Awards and Honors

> 2001 – 2006: Dean's Award, BUET, in each year of undergraduate study.
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> 2001 – 2006: BUET Academic Merit Scholarship in each semester.
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> 2000 – 2006: Higher Secondary talentpool Scholarship, Dhaka Education Board.
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> 1998 – 2000: Secondary General Scholarship, Rajsashi Education Board.
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> 2000: 13th among approx 0.15 million students at Higher Secondary School Certificate Examination.

Professional Activities

1. Reviewer, Information Processing Letters (IPL) and 2009 World Congress on Computer Science and Information Engineering (CSIE 2009).
2. Member, Organizing Committee, Workshop on Algorithm and Computation 2008 (WALCOM'08).
3. Member, Organizing Committee, National Collegiate Programming Contest 2008 (NCPC'08), BUET.
4. Coach, BUET team, NCPC'08 and ICPC regional Dhaka site.
5. Software Designer, Back Office Management System for Dhaka Stock Exchange (approximately for 2000 users, 10000 transactions per day).
6. Consultant, Support to ICT Task Force Programme (SICT), A Project for Installation and Maintenance of Network Backbone and Network Connectivity at Bangladesh Secretariat (approximately for 17 ministries of Bangladesh).
7. Software Developer, IPO Distribution Lottery Conduction Software (Approximately for 1 million records).

Volunteer Activities

> Worked as volunteer for the flood victims in Bangladesh with student organizations in 2004 and 2007.

Software Projects

> **Online Bookstore Management System** (October 2005) was implemented on Microsoft.NET framework. C#, ASP.NET, Maverick.NET and Oracle 9i were used.
>
> **Process Manager Module for a Tiny Operating System** (April 2005) was implemented using IBM assembly language. In conjunction with file and memory manager, it can execute a subset of UNIX commands.
>
> **Hospital Management System** (June 2004) was implemented as database course project. ASP.NET was used for front end and Oracle 9i was used for database.
>
> **JAVA Mail Client** (July 2002) was implemented using JAVA swing API and JAVA MAPI. It contains all the facilities of a typical commercial mail client including separate user management.

Hardware Projects

> **4-bit Microprocessor** (October 2005) was simulated using circuit maker and implemented using LSI/MSI chips. It contains 28 instructions and provide single stage pipeline.
>
> **Lift Controller** (September 2005) was implemented using LSI/MSI chips and control algorithm was implemented using C language. Well known elevator algorithm was used as control algorithm.

References

1. Dr. A. K. M. Ashikur Rahman
   Assistant Professor
   Dept. of Computer Science and Engineering, BUET, Dhaka, Bangladesh.

2. Dr. Md. Humayun Kabir
   Associate Professor
   Dept. of Computer Science and Engineering, BUET, Dhaka, Bangladesh.