

# G M MASHRUR E ELAHI

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## EDUCATION

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**University of Alberta**, Edmonton Canada

*Expected graduation date August 2016*

MSc. in Computing Science

Overall GPA: 3.5/4.0

**Khulna University of Engineering & Technology (KUET)**, Khulna Bangladesh

*April 2009*

BSc. in Computer Science & Engineering

Overall GPA: 3.75/4.0, Class Position 2nd

## EXPERIENCE

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**University of Alberta**

April 2015 - Present

*Research Assistant*

*Edmonton, Canada*

- Designed and developed a biomarker based on well known CoHOG method to extract and select meaningful texture features from MRI images of the brain to classify between the patients and normal person for a specific disease (ALS).
- Extracted and selected features are applied to SVM classifier and found 93% classification accuracy that outperforms other well known methods by 11%.
- The biomarker was implemented using both Matlab (2015b) and C++ languages.

**University of Alberta**

September 2014 - April 2016

*Teaching Assistant*

*Edmonton, Canada*

- Taught computing basics and preliminary programming with help of BeeperBot and Python Programming environment.
- Guide students to learn basic programming and evaluate them in the laboratory.
- The lab was performed in Linux Environment.

**Khulna University of Engineering & Technology**

July 2009 - August 2014

*Lecturer/Instructor*

*Khulna, Bangladesh*

- Conducted Computer Graphics, Algorithm Analysis and Design, Database systems, and Object Oriented Programming using C++ courses.
- Supervised different software development projects.
- Performed theories and laboratories where student uses C++, C#, Oracle, MySQL, HTML5, PHP, OpenCV, OpenGL to complete their assignments and projects.

**Cisco Networking Academy Program (CNAP), KUET**

July 2013 - August 2014

*Instructor*

*Khulna, Bangladesh*

- Conducted courses that includes Network Fundamentals, Routing Protocols and Concepts, LAN Switching and Wireless LAN, and Accessing the WAN.
- Conducted laboratories based on these courses using most common Routers and Switches.

## SELECTED PROJECTS

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**New Distributed Evolutionary Algorithm for Multi-Objective Optimization**

March 2009

- A new distributed Evolutionary Computational Technique was proposed to optimize multiple objectives in a distributed environment effectively. We used C# multi-threading technique for implementation. We published the work in IEEEExplore Computer Magazine.

### Design of Development of KUET (CSE) Website

January 2008

- This dynamic website was developed Providing Information on Students, Teachers and Staffs. Platform - PHP, MySQL Server 5, Flash 5, Ajax, JavaScript.

### Bangla Mailing software using Unicode

July 2007

- Bangla Mailing Software was developed to helps people to Email in Bangla language using Unicode. Platform- C#, MS SQL Server 2005.

### Design A Statistical Database for Weather Forecasting

July 2007

- This software was developed for analysis weather info from collected data by using Microsoft Visual Basic 6.0 & SQL Server 2000.

## ACHIEVEMENT AND CERTIFICATIONS

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- **ACM ICPC Dhaka site Programming contest:** Eleventh Place among 85 teams including Bangladesh, China and India. The contest held in December 8, 2007.
- **CCNA (Cisco Certified Network Associate):** Exploration Version 4.0. Student course completed with A+ in all semester.
- **CCNA (Instructor training):** Exploration Version 4.0. Instructor training course completed successfully.

## MANAGEMENT AND LEADERSHIP

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- **Coach,** ACM ICPC Dhaka site programming contest. *for the year 2011, 2012, and 2013*
- **Treasurer,** CSE Student Association, KUET. *June 2010 May 2012*
- **Organizing committee member,** KUET Programming Contest. *Jan 2007 March 2009*

## SELECTED PUBLICATIONS

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1. **G.M. Mashrur-E-Elahi,** Din Mohammad Mobin and Md. Anwar Ul Islam Rajib "Improvement of Traffic Overhead and Reliability in Wireless Sensor Network", *International Journal of Computer Science and Information Technology (IJCSIT)*, ISSN: 0975-3826 (online); 0975-4660(print), Vol. 4, No. 4, June 2012.
2. A.K.M Fazla Mehrab, Palash Debnath, **G.M. Mashrur-E-Elahi** "An Approach to Real-Time Portable Device for Face Recognition System" *15th International Conference on Computer and Information Technology (ICCIT)*, ISBN: 978-1-4673-4834-8, pp. 126131, December 2224, 2012, Chittagong, Bangladesh.
3. Md. Asadul Islam, **G.M. Mashrur-E-Elahi,** M.M.A. Hashem," A New Distributed Evolutionary Computation Technique for Multi-Objective Optimization", *Proceedings of 3rd International Conference on Computer Communication Engineering (ICCCE10)*, Kualalampur, Malaysia,pp. 1-6, May 11-12, 2010.
4. Md. Mohsin Ali, **G. M. Mashrur-E-Elahi,** Md. Asadul Islam, "A New Location Caching with Fixed Local Anchor for Reducing Overall Location Management Cost in Wireless Mobile Networks", *International Journal of Computer Networks (IJCN)*, Volume 2, Issue 2, Pages: 77 100, June 2010, Malaysia.