

## A. K. M. Golam Sarwar

---

**CONTACT INFORMATION**      1390, East Shewrapara      *Cell:* +880 1710 960762  
Mirpur, Kafrul      *Home:* +880 2 8750897  
Dhaka-1216      *E-mail:* [golam.sarwar@csebuuet.org](mailto:golam.sarwar@csebuuet.org)  
Bangladesh.      *Web:* <http://sarwarcse.awardspace.com>

---

**CAREER OBJECTIVE**      Seeking a position in the information technology industry to utilize my education, technical skill and all experiences with the organization that offers a challenging position.

---

**EDUCATION**      **B.Sc in Computer Science & Engineering, 2008**  
Bangladesh University of Engineering & Technology (BUET)  
CGPA: 3.83/4.00

**Higher Secondary Certificate (HSC), Science Group, 2002**  
Dhaka College, Dhaka.  
Result: 89.2% marks

**Secondary School Certificate (SSC), Science Group, 2000**  
Lalasarai High School, Dhaka.  
Result: 89.6% marks

---

**COMPUTER SKILLS**      **Programming Languages**  
C/C++, Visual C++, Java, C#, 80x86 Assembly ,Prolog, UNIX Shell Programming

**Databases**  
Oracle, PL/SQL, MySQL

**Web Development**  
ASP.NET

**Environments**  
Microsoft Visual Studio, Kawa pro, Eclipse

**Frameworks and Platforms**  
Microsoft .NET, OpenGL

**Modeling Tools**  
UML, ER-Diagram

**Operating Systems**  
Microsoft Windows, Linux

**Other Tools/Software**  
MATLAB, Circuit Maker, PSPICE, LaTeX, Router Simulator, Microwind, MultiSimDemo, Verilog HDL, Quartus

---

**SOFTWARE PROJECTS**      **3D Cricket Game**  
This is a 3D model of a Cricket Stadium with every component that occurs in a real life cricket stadium. Batting and bowling are very close to real life cricket playing game. Camera movements are also possible with keyboard. The features of this project are Lighting, Texture mapping, inset camera etc. *OpenGL* was used with *Visual C++* in .NET framework.  
*Group members: 2*

### ***Internet Billing System***

This is a web development project similar to an Internet Service Provider's website. It can do the all usual task supported by a professional ISP such as registration as a prepaid & postpaid user, login, logout, usage report, view remaining time etc. The system was designed using ER-Diagram and implemented by *C#, Oracle & IIS*.

*Group members: 2*

### ***Accounting Management System***

This system is originally intended for analysis, design & development of Accounting Management System using various *UML* tools. The analysis & design of the system was done by *use case, ER-Diagram, Class Diagram* etc. The system was partially implemented using *C# & Oracle*.

*Group members: 5*

### ***Unix Memory Management & File System***

In this project, a Dynamic Memory Manager and an efficient File System for Unix was implemented. The memory manager is capable of allocating & releasing variable sized block and splitting & merging of distributed block. The File System uses all the basic data structures of Unix such as inode, boot block, super block etc. Both systems were implemented using *Unix C* language.

*Group Members: 3*

### ***Implementation of OSI Data Link Layer***

This project provides full duplex communication between two ends for file transfer which contained framing, flow control (go-back-N) and error control (CRC).

*Group members: 5*

### ***Net Messenger***

This is a project similar to Messenger which is capable of communicating with others by sending & receiving messages. There is a server which controls all the information. The project was implemented by *Java* using *Java networking*.

### ***Hall Management System***

This is a project for the management of a Hall. There are various features such as administrative tasks, library maintenance, students information, dining maintenance etc. It is written in *C programming* language.

---

## **HARDWARE PROJECTS**

### ***Taxi Meter***

The main task of this project is to design & implementation of a typical *taxi meter*. All the features commonly available in a typical taxi meter are incorporated in this project. There are start, stop & pause button and a 7-segment display board to show distance, fare and time elapsed etc. Its hardware part was implemented using *microcontroller* and software part is implemented using *C programming*.

*Group members: 5*

### ***4-bit microprocessor***

A simple processor which is capable of executing 28 instructions was designed and implemented. The processor is designed using *microprogrammed* control unit and *multiplexer* based architecture.

*Group members: 5*

---

## **THESIS PROJECT**

Research on '*Bio-informatics Algorithm*' under *Dr .Masud Hasan*. I am working on various *Global Rearrangement Operations* and making a paper whose title is "An approximation algorithm for sorting by transposition using simple data structures"

---

## **AWARDS & HONOURS**

1. **Dean's List, BUET** for academic excellence of performance in 2<sup>nd</sup> and 3<sup>rd</sup> year.
2. **BUET Academic Merit List Scholarship** for excellent result in Level-2 Term-2, Level-3 Term-2, Level-4 Term-1.

3. **BUET Academic Merit List Scholarship (talent pool)** for excellent result in Level-2 Term-1 & Level-3 Term-1.
  4. Scholarship for excellent result in **BUET Admission Test**.
  5. Technical scholarship for **H.S.C** result.
- 

**WORKING  
EXPERIENCE**

I am working as a Member, Research & Development of COMMLINK Info Tech Ltd. from January 1, 2008. I am working in the WiMAX project here. The purpose of this project is to design various components (Base Station, Radio Module etc.) of WiMAX technology and to implement it.

---

**REFERENCE**

**Dr. Masud Hasan**

Assistant Professor

Department of Computer Science & Engineering

Bangladesh University of Engineering & Technology (BUET), Dhaka.

Cell: 880 1556 634106

E-mail: [masudhasan@cse.buet.ac.bd](mailto:masudhasan@cse.buet.ac.bd)