

## **Dr. Kazi Muheymin-Us-Sakib**

**Professor, Institute of Information Technology, University of Dhaka**

**And**

**Consultant, BdREN (Bangladesh Research and Education Network), University Grants Commission, Dhaka**

**Address:** Office: Institute of Information Technology, University of Dhaka.  
Home: 27/8, F-Block, Babar Road, Mohammadpur, Dhaka - 1207.

**Phone:** Office: 9661920 Ext: 8676  
Mob: 01730051232

**E-Mail:** sakib@iit.du.ac.bd, [muheymin@gmail.com](mailto:muheymin@gmail.com), [muheymin@yahoo.com](mailto:muheymin@yahoo.com)

**URL:** [http://www.iit.du.ac.bd/about\\_iit/individual\\_teacher/47](http://www.iit.du.ac.bd/about_iit/individual_teacher/47)

### **Brief Overview**

After completing my **Bachelor** and **Master of Science** in **Computer Science** from the Department of Computer Science and Engineering, University of Dhaka, Bangladesh, I joined at the Institute of Information Technology (IIT), University of Dhaka as a **Lecturer**. After that, I went to the Distributed Systems and Networking (DSN) group of Prof. Zahir Tari at RMIT University, Melbourne, Australia to pursue my **Doctorate degree (Ph.D)** in Computer Science with specializations to Sensor Networks. I also had an opportunity to do my **Post Doctoral Research Fellowship** at the Department of Computing, University of Bradford, West Yorkshire, United Kingdom.

At IIT, I have designed and implemented (as the **Coordinator** and **Program Chair**) the Bachelor of Science in Software Engineering (BSSE) in 2008 and the Master of Science in Software Engineering (MSSE) degree in 2012. I also have received several research grants (ARC, UGC, MoST, etc.) and projects (HEQEP, BDREN etc.). Since, Software Requirements Specifications (SRS) is my area of interest; I have been involved with number of Software need analysis projects. My research activities include devising algorithms for Software Engineering processes in Distributed environments, investigating on Software Design, Software Test automation and Software Maintenance. Beside Software engineering, I have also been involved in developing distributed mobile applications.

As the consultant of BdREN, I am giving technical know hows for connecting all the government Research and Education institutions under one robust backbone network. Supervising campus network is also one of my primary duties. Other than that, preparing the strategies for the sustainability of this countrywide network, is my prime concern.

Having that versatile exposure, I am interested in any area of Information Technology that can include researching to consulting on Software Engineering, Software Product Development, Analysis and Design, where I can demonstrate my technical and experimental skills and contribute to the development and better understanding of my knowledge for benefit.

### **A. Academic Qualifications**

1. **Doctor of Philosophy (Computer Science), 2008**  
School of Computer Science and Information Technology  
RMIT University, Melbourne, Australia

**Thesis:** Energy Balanced Sensor Node Organisation For Maximising Network Lifetime.  
**Supervisor:** Professor Zahir Tari and Peter Bertok

2. **Masters in Computer Science, 2001**  
Department of Computer Science and Engineering, University of Dhaka  
**Thesis:** An Efficient Simple and Conflict-Free Protocol for All-Optical Networks.  
**Supervisor:** Asso. Prof. Mossaddek Hossain Kamal and Upama Kabir
3. **Bachelor in Computer Science, 1999**  
Department of Computer Science and Engineering, University of Dhaka

## **B. Professional Experiences**

1. **Professor**  
Institute of Information Technology, University of Dhaka  
Duration: October 2016 to Date  
**Job Description:**
  - Preparing course materials and delivering lectures from undergraduate to post graduate levels.
  - Supervising thesis and projects on Software Engineering and Distributed Systems.
  - Performing administrative jobs such as Intern and Placement Office, House Tutor etc and doing projects such as e-Presence at University of Dhaka, ADB, WB, UGC and MoST grants etc.
2. **TST Consultant (Technical)**  
Bangladesh Research and Education Network (BdREN), University Grants Commission (UGC), Bangladesh  
Duration: October 2017 to Date  
**Job Description:**
  - Managing and supervising the implementation of countrywide research and education network backbone.
  - Managing and supervising the implementation of University campus networks.
  - Managing and supervising the operation of backbone and campus networks.
  - Devising strategic planning for sustainability of BdREN
  - Coordinating the research, education, training and collaboration between education institutes from BdREN and other NRENs as well.
3. **Director**  
Institute of Information Technology, University of Dhaka  
Duration: August 2014 to August 2017  
**Job Description:**
  - Administering the staffs, teachers and students of the Institute.
  - Setting and maintaining a strategic vision for the Institute.
  - Leading and promote research within the Institute.
  - Coordinating Institute strategy, research, education, training, and collaboration

4. **Associate Professor**  
Institute of Information Technology, University of Dhaka  
Duration: July 2012 to October 2016  
**Job Description:**
  - Preparing course materials and delivering lectures from undergraduate to post graduate levels.
  - Supervising thesis and projects.
  - Performing administrative jobs such as Bachelor Program Chair, Intern and Placement Office Head, House Tutor etc and doing projects such as DU Campus Network, UGC and MoST grants etc.
  
5. **Post Doctoral Fellow**  
Department of Computing, University of Bradford, United Kingdom.  
Duration: January 2010 to December 2010.  
**Job Description:**
  - Supervising PhD students working on trust based secured network.
  - Supervising MS by research students working on DNA cryptography and a Decision Support System (DSS) for Cancer prediction.
  - Investigating on Multi-objective optimization for Cancer drug infusion.
  
6. **Assistant Professor**  
Institute of Information Technology, University of Dhaka  
Duration: July 2008 to June 2012.  
**Job Description:**
  - Preparing course materials and delivering lectures from undergraduate to post graduate levels.
  - Supervising thesis and projects on Distributed Systems, Wireless Networks, Network Security and Web Services.
  - Performing R&D with the Industry Collaboration such as SMS based Information Push/Pull service for Renata Ltd. Bangladesh.
  
7. **Teaching Assistant**  
School of CS&IT, RMIT University, Melbourne, Australia  
Duration: January 2005 to July 2007.  
**Job Description:**
  - Prepared course materials and delivered lectures to International students from undergraduate to post graduate levels.
  - Supervised projects on Distributed Systems.
  
8. **Lecturer**  
Institute of Information Technology, University of Dhaka  
Duration: March 2003 to July 2008.  
**Job Description:**
  - Prepared course materials and delivered lectures from undergraduate to post graduate levels.
  - Supervised thesis and projects on Distributed Systems and Wireless Networks.

9. **System Programmer**  
Proshika Computer Systems, Dhaka, Bangladesh.  
Duration: February 2002 to March 2003.  
**Job Description:**
  - Maintained and customized the ProshikaShabda, a leading bangla interface for word processing.
  - Developed the ProshikaShabdaUnicode, the first commercial bangla unicode interface for word processing.
  
10. **System Administrator**  
Global Link Telcom Limited, Dhaka, Bangladesh.  
Duration: January 2001 to February 2002.  
**Job Description:**
  - Developed a Linux and Windows NT based Internet Fax network.
  - Maintained the Internet Fax network of over one thousand clients.

### **C. Extra activities**

1. **Member, Board of Advanced Studies (BAS)**  
Shahjalal University of Science and Technology (SUST)  
2015 to October 2017
  
2. **House Tutor**  
Shahidullah Hall, University of Dhaka  
February 2012 to October 2017
  
3. **Member, Board of Governors**  
Institute of Information Technology, University of Dhaka  
July 2011 to October 2017
  
4. **Member, Board of Governors**  
Institute of Information Technology, Jahangirnagar University  
July 2011 to October 2017
  
5. **Advisor**  
DU IT Society (DUITS), University of Dhaka  
2011 to Date
  
6. **Member, Selection Committee (Selected)**
  - a. IIT, University of Dhaka (2014 – to Date)
  - b. Department of Library Sciences, University of Dhaka (2015 – 2017)
  - c. Bangabandhu Sk. Mujibur Rahman Agriculture University (2015 – to Date)
  - d. Department of Software Engineering, Daffodil University ( 2015 – to Date)
  - e. IIT, Noakhali Science and Technology University (2016 – to Date)
  
7. **Organizing Chair**  
Workshop on Software Engineering, University of Dhaka  
2012 to Date

8. **Co-Chair (Organizing)/IPC of Software Engineering Track**
  - a. ICEIV, (2013 – to Date)
  - b. ICEEICT, (2015 – to Date)
  - c. SoftEng, (2015 – to Date)
9. **Syllabus Committee Members**
  - a) Department of ICT, Bangladesh University of Professionals
  - b) Institute of Information and Communication Technology (IICT), Noakhali Science and Technology University (NSTU)
  - c) Department of Computer Science and Engineering, Islamic University of Technology (IUT)
  - d) Department of Software Engineering, Daffodil University

**Other Important roles:**

1. **Grand Juror**, National Mobile Application Award, WE CAN, NASA, DUITs etc
2. **Program Chair**, Bachelor Program, IIT, DU (2011 – 2013)
3. **Student Advisor**, IIT, DU. (2008-2010)
4. **General Secretary**, CSEDU Alumni Association (2008-2010)
5. **IPC Member**, SKIMA, CSA, SOFTENG etc
6. **Convener** (Dhaka Side), Asia Pacific Network Information Center (APNIC) Workshop on IPv6, 2008(<http://www.apnic.net/training/registration/20080716.html>).
7. **Member**, Bangladesh Red Crescent Society
8. **Executive Member**, Bangladesh Hepatitis Society

**D. Project/Scholarship/Grant**

**Research Projects:**

1. **Mobile Apps Testing**  
**Funded by :** ICT Division, Ministry of ICT, Government of Bangladesh, 2015-2016  
**Position:** Principal Investigator  
**Description:** The goal of this research oriented project is to automate different types of mobile application testing to increase the overall quality of mobile application life cycle. This project focuses on conducting contextual tests in virtual mobile devices. Other investigators are – Lecturer Rayhanur Rahman and Amit Seal of IIT.
2. **Cloud Computing Provenance Detection**  
**Funded by :** University Grants Commission (UGC), 2011-2013.  
**Position :** Chief Investigator  
**Description:** Discovering novel techniques for detecting provenance in cloud is the main aim of this project. MSSE research students (Asif Imran, Alim Ul Gias and Rayhan Rahman) are working as RAs in this project with Investigator Emon Kumar Dey.
3. **Infrastructure for Highly Dynamic Web Services.**  
**Funded by :** The Australian Research Council (ARC), Linkage scheme no: LP0347217 (2004 - 2007)  
**Position :** Investigator  
**Principal Investigator :** Prof. Zahir Tari (zahir.tari@rmit.edu.au), RMIT University, Australia.

**Description :** This project aimed at designing a robust and scalable infrastructure to support highly dynamic web services. This infrastructure provides an adaptive e-business platform enabling optimal integration of enterprise complex business processes across external systems and third party applications.

### **Dhaka University Projects:**

1. **Campus e-Presence at the University of Dhaka**  
**Funded by :** BDREN (World Bank), 2016-2017.  
**Position :** Sub-Project Manager (SPM)  
**Description:** Ensuring electronic presence of every member of DU through surveillance and access control with the state of the art technology.
2. **Dhaka University Campus Network Modernization Project**  
**Funded by :** BDREN (World Bank), 2013-2016.  
**Position :** Alternative Sub-project Manager  
**Sub-project Manager :** Prof. Dr. Mahabubul Alam Joarder, Director, IIT, University of Dhaka.  
**Description:** Modernize the Dhaka University campus network with state of the art technology.
3. **DU Library Automation Project, University of Dhaka**  
**Funded by :** the Central Library, University of Dhaka (2008 - 2010).  
**Position :** Member, Core Team.  
**Team Leader :** Assoc. Prof. Mosaddek Hossain Kamal (tushar@cse.univdhaka.edu), University of Dhaka.  
**Description:** A software is intended to develop to meet all the personalized needs of the DU library system. It will establish a fully automated library system.

### **GoB Projects:**

1. **Education Quality Enhancement through ICT on Selected Private College Development Project, MOUSHI, Ministry of Education**  
**Funded by:** the Peoples Republic of Bangladesh (2015-2018)  
**Position:** Expert Member  
**Project Director:** Professor Shirajul Islam, MOUSHI, Shikkha Bhaban  
**Description:** About 1500 selected private colleges will be developed through Lab, internet and modern classroom facilities.
2. **Bangladesh National Library Modernization Project**  
**Funded by:** the Peoples Republic of Bangladesh (2011-2013)  
**Position:** Expert Member  
**Project Director:** Md. Mizanur Rahman, National Archives and National Library of Bangladesh.  
**Description:** Development of Library archiving process, archiving national documents of Peoples Republic of Bangladesh.
3. **Development of Digital Film Archiving**  
**Funded by :** Government of Bangladesh, 2009 - 11.  
**Position :** Expert Member  
**Project Director :** Md. Sarwar, Bangladesh Film Archive (BFA).  
**Description:** Developing a digital library and it's necessary infrastructure for the Bangladesh Film Archive.

## Curriculum Projects:

1. **Syllabus for the Information and Communication Technology (ICT)**  
Home Economics College, Dhaka, 2015  
**Position:** Coordinator  
**Administering Organization:** Home Economics College, Dhaka.  
**Description:** A modern tailored ICT syllabus for the home economics undergraduate students, to meet the current demand.
2. **Syllabus for the Master of Science in Software Engineering (MSSE)**  
Institute of Information Technology, University of Dhaka (2011 - 2012).  
**Position :** Coordinator  
**Administering Organization :** Institute of Information Technology, University of Dhaka.  
**Description:** A research based Software Engineering Graduate course is aimed to be developed for the students having undergrads in Software Engineering. For details please visit the IIT Website (<http://iit.du.ac.bd/>).
3. **Twinning Project – ICAEW**  
**Funded by :** The World Bank, in association with the Institute of Chartered Accountants England and Wales (ICAEW), 2009.  
**Position :** Consultant  
**Project Head :** Juris Reinhardt (juris.reinhardt@icaew.com), ICAEW, United Kingdom.  
**Description:** Developing curriculum and Preparing professional reading lists for Information Technology Knowledge and Information Technology Applications for Institute of Chartered Accountants in Bangladesh (ICAB).
4. **Syllabus for the Bachelor of Information Technology (Major in Software Engineering) (The degree name is modified to Bachelor of Science in Software Engineering (BSSE))**  
Institute of Information Technology, University of Dhaka (2007 - 2008).  
**Position :** Coordinator  
**Administering Organization :** Institute of Information Technology, University of Dhaka.  
**Description:** Software engineering is a systematic and disciplined approach to develop software. It applies computer science, mathematics, general education and business principles and practices to the creation, operation and maintenance of software systems. BIT(SE) program is a four-year industry-oriented degree specialized on Software Engineering. For detail, please visit the IIT Website (<http://iit.univdhaka.edu/>).

## Scholarships/Fellowship:

1. **Fellowship at Kent and Ohio State University (Tour4), USA**  
The program is Virtual Classroom Support and Management Visit for BdREN and University Team, 2017.
2. **Training of Teachers Abroad for Higher Studies.**  
Funded by the University of Dhaka. No: REGI/ADMIN-3/OverseasSchol./2004/32607. (2004 - 2007)
3. **APAC (Australian Partnership for the Advanced Computing) Summer School Scholarship**  
Provided by the Australian National University (ANU), Canberra, Australia, 2005.

## **E. Publications**

### **Book(s)**

1. Kazi Muheymin Sakib, "*Energy Balanced Topology for Sensor Networks: Maximising Network Lifetime*", VDM Verlag, Germany, 2009. ISBN: 978-3- 639-12817-8.

### **Journals**

Please see the website : [http://www.iit.du.ac.bd/about\\_iit/individual\\_teacher/47](http://www.iit.du.ac.bd/about_iit/individual_teacher/47)

### **Conference Papers**

Please see the website : [http://www.iit.du.ac.bd/about\\_iit/individual\\_teacher/47](http://www.iit.du.ac.bd/about_iit/individual_teacher/47)

### **Dissertation**

1. M.Sc Thesis: *Efficient Simple and Conflict-Free Protocol for All-Optical Networks*, June, 2001.
2. PhD Thesis: *Energy Balanced Sensor Node Organisation For Maximising Network Lifetime*, October, 2007.

## **F. References**

Will be provided if necessary.

---

**(Dr. Kazi Muheymin-Us-Sakib)**