

# S. M. Kamrul Hasan

Akbar Road, Block D, House 93, Bashundhara R/A, Dhaka-1229

☎ (+88) 01722-130363

| ✉ leon.kuet.eee@gmail.com

| 🌐 <https://bd.linkedin.com/pub/s-m-kamrul-hasan-leon/43/807/68>

## Executive Summary

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- Electrical & Electronic graduate with strong technical background in harnessing electrical, computer and automated systems to advance technology and deliver innovative applications
- Multi-fold track record across academic and professional spheres with research publications in international journals, presentations at leading conferences and customer relationship experience at local SME
- Strong research and analytical skills with a keen ability to identify and isolate problems and a logical approach in defining, designing and developing engineering solutions
- Pragmatic and firm in decision-making, with proven leadership and superior coordination skills through active involvement in charity organizations and scientific interest groups
- Team player with outstanding interpersonal and communication skills. Capable of establishing meaningful relationships across diverse audiences of varied socio-cultural backgrounds

## Education

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### Khulna University of Engineering and Technology

B.S. IN ELECTRICAL AND ELECTRONIC ENGINEERING

- CGPA 3.87/4.00, 2nd in class of 121 students

*Khulna, Bangladesh*

*Feb. 2011 - June 2015*

### Al Hera Academy School and College

HIGHER SECONDARY CERTIFICATE

- CGPA 5.00/5.00

*Pabna, Bangladesh*

*2008-2010*

### Al Hera Academy School and College

SCHOOL SECONDARY CERTIFICATE

- CGPA 5.00/5.00

*Pabna, Bangladesh*

*2006-2008*

## Professional Experience

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### Desh Energy 100MW Rental Power Plant

ENGINEERING INTERN

- Acquires valuable technical insights of electrical systems and equipments for diesel power plant applications

*Shiddhirganj, Dhaka, Bangladesh*

*25th-29th May 2014*

## Research & Publications

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### Journal:

- S. M. Kamrul Hasan and Mohiuddin Ahmad, "A new approach of a touchless virtual hand for sixthsence technology," International Journal of Computer Applications, vol. 120, no. 4, pp.13-18, June 2015.

### Conferences:

- Chayan Mondal, Md. Kawsar Azam, Mohiuddin Ahmad, S. M. Kamrul Hasan, and Md. Rabiul Islam, "Design and implementation of a prototype electrooculography based data acquisition system," IEEE Proc. Int'l Conf. Electrical Engineering and Information & Communication Technology (ICEEICT 2015) pp.1-6, May 2015.
- S. M. Kamrul Hasan and Mohiuddin Ahmad, "A new approach of sign language recognition system for bilingual users," IEEE Int'l Conf. Electrical & Electronic Engineering (ICEEE 2015), pp.33-36, November 2015.
- S. M. Kamrul Hasan and Mohiuddin Ahmad, "Human-Computer synergy concept: creative development in touchless technology," IEEE 5th Int'l Conf. Informatics, Electronics & Visions (ICIEV 2016), 13-14 May 2016, Dhaka University, Bangladesh [accepted and under publication].
- S. M. Kamrul Hasan, Mohiuddin Ahmad and Suvro Dev Ghosh, "Perceptive proposition of boosted algorithm for brain tumor segmentation," ACM Int'l Conf. Advances in Information Communication Technology & Computing (AICTC 2016), 12-13 August 2016, Bikaner, India [accepted and under publication].

## Poster Presentation:

- S. M. Kamrul Hasan and Mohiuddin Ahmad, "Perceptive proposition of boosted algorithm for brain tumor segmentation," IEEE 5th Student Conf. Informatics, Electronics & Visions (SCIEV 2016), 13-14 May 2016, Dhaka University, Bangladesh.

## Undergraduate Projects

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### Hardware:

- DTMF Based Automatic Door Lock using PIC Microcontroller (3rd year individual project).
  1. Designed, developed and deployed an automatic door security system, with remote control by a mobile phone using a unique password.
  1. Programmed PIC16F628A Microcontroller with MicroC software, PCB layout with Sprint Layout v5.0, and DTMF decoder with MT8870 microcontroller.
- Complete House Wiring System Design (2nd year group project).
  1. Generated technical drawings and calculated implementation cost of a full electric wiring system for "Amar Ekushey" student residential hall.
- Winding Design of a 3-phase Transformer (2nd year group project).
  1. Formularized the winding design of a 3-phase Transformer
- Layout Design of a 3-phase Induction Motor Lap Winding (2nd year group project).
  1. Drew the layout design of a 3-phase Induction Motor

### Software:

- Automatic Face Recognition System using MATLAB (2nd year individual project).
  1. Employed MATLAB code a computer application that identifies a person in a digital image or video by mapping selected facial features to MIT's facial database

## Extracurricular Activities

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### Founder/Activist

BONDHU-SHONGHO, BERA, PABNA

Sept. 2011- PRESENT

- Spearheaded the end-to-end launch of a charity organization for underprivileged people
- Key initiator coordinating a network of volunteers to facilitate the annual winter clothing donation driving

### Vice-President

HUMAN ENLIGHTENMENT & RESEARCHING TECHNICAL ZONE (HERTZ)

June 2014- PRESENT

- Organized regular electronics/programming workshops to build IT awareness and digital literacy for KUET undergraduates
- Prepared latest software & engineering learning resources to strengthen technical foundation and broaden IT knowledge of juniors

### I.T Coordinator

KUET LIVE

2012-2013

- Manage digital assets of KUET's blog, regularly post updates to engage university community

## Technical Skills

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**Languages,** C, C++

**Hardware,** MikroC for PIC Microcontroller, MPLAB, Sprint Layout v5.0, Intel 8085 & 8086 Microprocessor, Proteus

**Software,** MATLAB, PSPICE, TTS (text-to-speech), and touchless virtual writer, AutoCAD

**Operating System,** Linux, Windows

**Database,** MySQL

## Miscellaneous Information

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#### PROFESSIONAL MEMBERSHIPS

- Authorized IAENG Journal Member (International Association of Engineers) Sept. 2011- PRESENT
- Associate Member of IEB (Institute of Engineers, Bangladesh)
- IEEE Member(Institute of Electrical and Electronic Engineers)
- ACM Member(Association of Computing Machinery)
- Nationality: Bangladeshi
- Availability:Immediate