

**EDUCATION**      **Masters** :(*on going*), in Electrical Engineering, Utah State University  
◊ Area of specialization: Power Electronics

**B.Sc** : in Electrical & Electronic Engg., Bangladesh Univ. of Engg. & Technology  
◊ Graduation: April 2012  
◊ Major: Power, Minor: Electronics  
◊ Thesis topic: Design and implementation of three-single phase switch mode cyclo-converter  
◊ Thesis supervisor: Dr. Mohammad Ali Choudhury

**HSC(Grade XII)** : Dhaka College, Bangladesh, 2006  
◊ GPA Obtained: 5.00/5.00

**SSC(Grade X)** : Ideal School and College, Motijheel, Dhaka, Bangladesh, 2004  
◊ GPA Obtained: 5.00/5.00

**RESEARCH INTERESTS**      • Power electronic converters  
• Electric vehicular system

**PUBLICATIONS**      **5.** Azad, A.N.; Hossain Toufiq Imam, M.; Ali Azam, M.; Ashfanor Kabir, M.; Nasir Uddin, M.; Choudhury, M.A.;    ” *Cuk topology based new three phase to single phase cycloconverter with input current shaping and input power factor improvement*” Innovative Smart Grid Technologies - Asia (ISGT Asia), 2012 IEEE , vol., no., pp.1-6, 21-24 May 2012  
**4.** Imam, M.H.T.; Azam, A.; Azad, A.N.; Kabir, M.A.; Uddin, M.N.; Choudhury, M.A.; ”*Three to single phase buck and boost cycloconverters with good input power quality*” Innovative Smart Grid Technologies - Asia (ISGT Asia), 2012 IEEE , vol., no., pp.1-6, 21-24 May 2012  
**3.** Azam, M.A.; Azad, A.N.; Imam, H.T.; Kabir, M.A.; Uddin, M.N.; Choudhury, M.A.;    ”*Three to single phase buck-boost regulated high power quality Cycloconverter*” Innovative Smart Grid Technologies - Asia (ISGT Asia), 2012 IEEE , vol., no., pp.1-6, 21-24 May 2012  
**2.** Alam, K.S.; Khan, T.A.; Azad, A.N; Munasib, S.; Arif, K.N.H.; Hasan, A.; Kabir, M.A.;”*Modeling and computation of a solar-piezoelectric hybrid power plant for railway stations*” International Conference on Informatics, Electronics & Vision (ICIEV), 2012 , vol., no., pp.155-159, 18-19 May 2012  
**1.** Sikder, M.; Palash, M.;Gupta, S.;Rashid, M.;Hasan, A.;Sajjad, M.; Azad, A.;Muntasir, T.;”*Automatic Plant Irrigation System using Microcontroller*” Annual paper meet of electrical engineering, Institute of Engineers Bangladesh (APMEE IEB), Bangladesh, 2012

**RESEARCH EXPERIENCES**      ◊ Design & implementation of SMPS topology based reduced switched cycloconverters ensuring high input power factor, low input current THD and high efficiency  
◊ Modeling of Renewable energy hybrid power plant

**PROFESSIONAL & ACADEMIC EXPERIENCE** ◇ *Lecturer(Full time): April 2012-March 2013, at Green University of Bangladesh (GUB)*  
◇ *Assistant Manager: February 2013-August 2013, at Electricity Generation Company of Bangladesh (EGCB), PDB,Bangladesh*

**PROFESSIONAL AFFILIATIONS** ● Institute of Electrical and Electronics Engineers(IEEE)  
● IEEE Power and Energy Society (PES)  
● IEEE Communication Society (ComSoc)

**SELECTED PROJECT WORKS**

- Design and implementation of an automatic irrigation control system
- Design and simulation of a 4-bit ALU and 4-bit Micro-computer
- Design and implementation of a low cost ECG system
- Design of a smart parking system model
- Design of electrical wiring system of a multistoried building
- Power flow optimization of an entire division by PSAF simulation

**RELEVANT COURSEWORK** ◇ Power Electronics for Electric Vehicles ◇ Linear Multivariable Control ◇ Power System Protection ◇ Power System Operation and Control ◇ Computer Programming ◇ Microprocessor and Interfacing ◇ Control System ◇ Solid State Devices ◇ Optoelectronics ◇ Compound semiconductor and heterojunction devices ◇ Linear Algebra