

Curriculum Vitae



Personal Data

Dr. MD Shahrukh Adan Khan, MIET (IET, UK), Ph.D. (UK), B.Eng. (UK)

Nationality: **Bangladeshi**

Religion: Islam

Correspondence Address: House-48, Road-3/A, Dhanmondi, Dhaka, Bangladesh, P. O Box: 1209

Email ID: DrShahrukh@ieee.org, shahrukh.adnan@uap-bd.edu, Contact: 008801783655639

Career Objective and Motivation

To conduct quality research at the highest level in a reputed higher learning institute and serve as a faculty in a leading key-position, that will provide me a worthy platform to make the best use of my teaching, research and administrative skills.

Current Status

- **Acting Dean, School of Science & Engineering**
Canadian University of Bangladesh, Banani, Dhaka.
- **Head (EEE)**
Canadian University of Bangladesh, Banani, Dhaka.
- **Editor, IJVICS, Inderscience [SCOPUS, Elsevier]**
Editorial Office
P.O. Box 735, Olney, MK46 5WB, UK.
- **Editor, Frontiers in Energy Research [SCOPUS, Elsevier]**
Editorial Office
Switzerland.
- **Associate Editor, IET Intelligent Transport Systems**
Editorial Office
UK.

- **Guest Editor**

Special Issue on IoT Integration in Next generation smart City Planning

International Journal of grid and utility Computing

Inderscience, UK

Academic Qualification

- 2017** : **Doctor of Philosophy (Ph.D.)**
Department of Electrical and Electronic Engineering,
Faculty of Engineering, University of Nottingham
(UK)
- Research Title** : **LOW COST VERTICAL AXIS WIND ENERGY HARVESTING SYSTEM USING SUPERCAPACITORS FOR RURAL AREA**
- 2011** : **BEng (Hons) with 1st Class in Electrical and Electronic Engineering, University of Nottingham (UK)**
- Final Year Project** : *Performance Analysis of different modulation formats over standard single mode fiber for a bit rate of 40 Gb/s-
Distinction*

Professional Body

- **MIET (IET, UK)**
- **Member, IEEE (Malaysia)**
- **IEEE Young Professionals (Malaysia)**

Work Experience

- **Title: Acting Dean, School of Science and Engineering,**
Company: Canadian University of Bangladesh
Duration: March 5, 2019 to present
- **Title: Head, Department of Electrical and Electronic Engineering**
Company: Canadian University of Bangladesh
Duration: March 5, 2019 to present

- Title: **Assistant Professor, Department of Electrical and Electronic Engineering**
Company: University of Asia Pacific, Bangladesh

Duration: October 26, 2016 to March 04, 2019

- Title: **Editor, International Journal of Vehicle Information and Communication System**

Company: Inderscience Publisher, UK, Duration: 2018 to present

- Title: **Editor, Smart Grid, Frontiers in Energy Research**

Company: Frontiers Publisher, Switzerland, Duration: 2019 to present

- Title: **Associate Editor, IET Intelligent Transport Systems**

Company: IET, UK, Duration: 2019 to present

- Title: **Research Assistant with active teaching experience**

Company: University of Nottingham Malaysia Campus, Semenyih, Malaysia.

Duration: October 2011 to October 2016

- Title: **Trainee Engineer (Industrial Attachment)**

Company: PTT Exploration and Production Public Company Limited, Bangkok and Sirikit, Thailand

Duration: June 2010 to September 2010

- Title: **Trainee Engineer (Industrial Attachment)**

Company: Baker Hughes (Formerly BJ Services), Middle East Branch, Bangladesh

Duration: June 2009 to September 2009

Awards for Academic Excellence:

- **Dean's Scholarship** for Ph.D.
- **Enhanced 75% High Achiever's Scholarship (2008-2011) by University of Nottingham Malaysia Campus.** *Note: He is the only international student from his batch who had the honor to get 75% enhance scholarship due to his outstanding academic record throughout the years of his Foundation and Bachelor degree.*
- **Best Student, Faculty of Engineering, BDSC, University of Nottingham (2009-2010)**
- **Student of the Year, BDSC, University of Nottingham (2009-2010)**
- **Bapex, Petrobangla (National Oil Company of Bangladesh) Scholarship** for HSC, 2006
- **Bapex, Petrobangla (National Oil Company of Bangladesh) Scholarship** for SSC, 2004

Grants

- **MPEMR/Power & Energy Hackathon 2018/Top 5 Project**
Funding Body: **Ministry of Power Energy and Mineral Resources**
Project Title: *“Cost-Effective Intelligent Solar Data logger for Smart City”*.
Position: Mentor (University of Asia Pacific research Team for Hackathon 2018, Bangladesh)
Funding Amount: 2500MYR
Project Status: Ongoing (2018-2019)
- **ERGS/1/2011/TK/UNIM/03/6**(Exploratory Research Grant Scheme), Malaysia
Funding Body:MOHE (Ministry of Higher Education)
Project Title: *“Modelling and Analysis of Maglev Vertical Axis Wind Turbine”*.
Position: Member, University of Nottingham Malaysia Campus,
Funding Amount: 150K MYR
Project Status: Completed (2011 – 2014).
- **EPRC/58-2018-002**(Energy Power and Research Council Research Grant), Ministry of Power, Energy and Mineral Resources, Bangladesh
Funding Body:MPEMR (Ministry of Power, Energy and Mineral Resources, Bangladesh)
Project Title:*“Clustered Integrated Energy Management for intelligent Demand Response - First approach towards Smart City planning for Digital Bangladesh”*.
Position: Project Leader, University of Asia Pacific Bangladesh
Funding Amount: 3 Crore BDT, Project Status: Under Review.
- **“Development of Graphical User Interface for Input/output Characterization of Non Linear Control System”**, a Joint Venture Research by Airtouch Telecommunication (Bangladesh) and MukTar Enterprises (Singapore)
Position: **Primary Investigator (PI)**
Funding Body: MukTar Enterprises Pte Ltd (320 Serangoon Road, Singapore)
Project Status: Completed (2017)

Academic & Research Affiliation

- **Editor, Editorial Board, IJVICS, Inderscience**
Editor Office,
Inderscience Publication, Onley
UK
<http://www.inderscience.com/jhome.php?jcode=IJVICS>
- **Guest Editor**
Special Issue on IoT Integration in Next generation smart City Planning
International Journal of grid and utility Computing
Inderscience, UK
<https://www.inderscience.com/info/ingeneral/cfp.php?id=4737>

- **Principal Organizer** of Special Session “Power Control and Energy Management” (PCEM), IEEE International Conference on Smart Grid and Clean Energy, University Tunku Abdul Rahman (UTAR), Malaysia, 2018.
<http://www.icsgce.com/>
<http://www.icsgce.com/?page/SS-PCEM/>
- **Jury Board Panel Member**, ‘Power and Energy Hackathon 2018’, Ministry of Power Energy and Mineral Resources.
- **Session Chair** of PCEM, ICSGCE18 Conference, Malaysia, 2018.
- **Session Chair** at 14th Global Engineering and Technology Conference, 2017.

List of Publication (Last 5 Years)

International Peer Reviewed Journals

1. **MD Shahrukh Adnan Khan**, Rajprasad Rajkumar, “A LabVIEW based Real Time GUI for Switched Controlled Energy Harvesting Circuit for Low Voltage Application”, *IETE Journal of Research, Taylor Francis*, September 6, 2018. **(1st Author)** Thomson Reuters & SCOPUS (Elsevier)
2. **MD. Shahrukh Adnan Khan**, Ibrahim Khan, Mahtab Kabir, Implementation of Efficient B2G and V2G in Practical Cases, **Special Issue of Energy Efficient Technology- Crowd Energy, JEST Journal**, Vol. 16(4), pp. 325-340. **(1st Author)** SCOPUS (Elsevier)
3. **MD. Shahrukh Adnan Khan**, Md. Ahad Rahman Mia, Rashedur Rahman, Technical Analysis of Security Management in terms of Crowd Energy and Smart Living, **Special Issue of Energy Efficient Technology- Crowd Energy, JEST Journal**, Vol. 16(4), pp. 367-378. **(1st Author)** SCOPUS (Elsevier)
4. **CV Aravind**, MD Shahrukh Adnan Khan, “Options and opportunities for energy management in Malaysian Grid Systems - Putrajaya as a case study”, **Special Issue of Energy Efficient Technology- Crowd Energy, JEST Journal**, Vol. 16(4), pp. 316-324. **(1st Author)** SCOPUS (Elsevier)
5. **MD Shahrukh Adnan Khan**, Md. Moshir Rahman, Manobendu Sarker, Mohammad Rokonzaman, CV Aravind, “PERFORMANCE EVALUATION OF DUOBINARY TRANSMITTER FOR HIGH SPEED N×40GB/S TRANSMISSION OVER STANDARD SINGLE MODE FIBRE USING WAVELENGTH DIVISION MULTIPLEXING”, *Journal of Engineering Science and Technology*, pp. 94-105, September 2018. **(1st Author)** Thomson Reuters & SCOPUS (Elsevier)

6. **MD Shahrukh Adnan Khan**, Munmun Akter, Masum Howlader, Md. Moshir Rahman, Farhana Akter Mou, CV Aravind, "SIMULATION ANALYSIS OF INTENSITY MODULATION FOR HIGH SPEED N×40Gb/S TRANSMISSION OVER STANDARD SINGLE MODE FIBRE USING WAVELENGTH DIVISION MULTIPLEXING", *Journal of Engineering Science and Technology*, pp. 133-144, September 2018. **(1st Author)** Thomson Reuters & SCOPUS (Elsevier)
7. **MD Shahrukh Adnan Khan**, M Abdullah Al Amin, Masum Howlader, "A Novel Low Voltage Application Based Intelligent Control System for Hybrid Energy Storage", *Journal of Electronic Science and Technology*. **(1st Author)** SCOPUS (Elsevier)
- Status: Accepted on May, 2018
8. **MD Shahrukh Adnan Khan**, Tanvir Hoq, "Energy Harvesting—A Technical Analysis of Evolution, Control Strategies and Future Aspects", *Journal of Electronic Science and Technology*. **(1st Author)** SCOPUS (Elsevier)
- Status: Accepted on May, 2018
9. Masum Howlader, **MD Shahrukh Adnan Khan**, "Approach for Grid Connected PV Management: Advance Solar Prediction and Enhancement of Voltage Stability Margin Using FACTS Device", *Journal of Electronic Science and Technology*. Status: Accepted on April, 2018 SCOPUS (Elsevier)
10. **MD Shahrukh Adnan Khan**, R. Rajkumar, C.V. Aravind, Y.W. Wong, "Feasibility Study of a Novel 6V Supercapacitor based Energy Harvesting Circuit Integrated with Vertical Axis Wind Turbine for Low Wind Areas", *International Journal of Renewable Energy Research*, Vol.6, No.3, 2016. **(1st Author)** Thomson Reuters & SCOPUS (Elsevier)
11. **MD Shahrukh Adnan Khan**, R. Rajkumar, C.V. Aravind, Y.W. Wong, "A Novel Approach towards Introducing Supercapacitor based Battery Charging Circuit for Off-grid Low Voltage Maglev VAWT", *International Journal of Control Theory and Application*, Vol. 9(5), pp 369-375, 2016. **(1st Author)** SCOPUS (Elsevier)
12. **MD Shahrukh Adnan Khan**, Sharsad Kara Kuni, Mahmudul Alam, Md. Moshir Rahman, Muhammad Rahman Mia Ahad, "Performance Analysis of RZ Modulation for Long Haul Single Mode Fibre", *International Journal of Engineering Research in Electrical and Electronic Engineering*, Vol-3, December, 2017. **(1st Author)**
13. **MD Shahrukh Adnan Khan**, R. Rajkumar, C.V. Aravind, Y.W. Wong, "Cost-effective Design Fabrication of a Low Voltage Vertical Axis Wind Turbine", *International Journal of Control Theory and Application*, Vol. 9(6), pp 2827-2833, 2016. [Published] **(1st Author)** SCOPUS (Elsevier)

14. MD Shahrukh Adnan Khan, R. Rajkumar, C.V. Aravind, Y.W. Wong, S. Shahnaz, L.J. See, "Comprehensive Review on the Wind Energy Technology", *International Journal of Control Theory and Application*, Vol. 9(6), pp 2819-2826, 2016. (1st Author) SCOPUS (Elsevier)
15. Z. Anjum, C.V. Aravind, MD Shahrukh Adnan Khan, "Application of Halbach Magnet Array in designing a Permanent Magnet Synchronous Machine", *International Journal of Control Theory and Application*, Scopus, Vol. 9(6), pp 2836-2842, 2016. (1st Author) SCOPUS (Elsevier)
16. MD Shahrukh Adnan Khan, Rajprasad Rajkumar, Rajparthiban Rajkumar, CV Aravind, "Optimization of Multi-pole Three Phase Permanent Magnet Synchronous Generator for low speed Vertical Axis Wind Turbine", *Journal of Applied Mechanics and Materials*, Vol. 446-447, pp 704-708, 2014. (1st Author) SCOPUS (Elsevier)
17. MD Shahrukh Adnan Khan, Rajprasad Rajkumar, Rajparthiban Rajkumar, CV Aravind, "A Comparative Analysis of Three- phase, Multi-phase and Dual Stator Axial PMSG for Vertical Axis Wind Turbine", *Journal of Applied Mechanics and Materials*, Vol. 446-447, pp 709-715, 2014. (1st Author) SCOPUS (Elsevier)
18. MD Shahrukh Adnan Khan, Rajprasad Rajkumar, Rajparthiban Rajkumar, CV Aravind, "Performance analysis of a 20 Pole 1.5K W Three Phase Permanent Magnet Synchronous Generator for low Speed Vertical Axis Wind Turbine", *Journal of Energy and Power Engineering*, Vol. 5, pp. 423-428, July 2013. (1st Author)
19. MD Shahrukh Adnan Khan, Rajprasad Rajkumar, Rajparthiban Rajkumar, CV Aravind, "Optimization of Multi-Pole Permanent Magnet Synchronous Generator based 8 Blade Magnetically Levitated Variable Pitch Low Speed Vertical Axis Wind Turbine", *Journal of Applied Mechanics and Materials*, Vol. 492, pp 113-117, 2014. (1st Author) SCOPUS (Elsevier)
20. MD. Shahrukh Adnan Khan, Md. Ahad Rahman Mia, Rashedur Rahman, A Methodological Analysis of Smart Household and HEMS with distributed renewable generation, IET Renewable Power Generation. [Under Review] (1st Author) Thomson Reuter & SCOPUS (Elsevier)
21. MD Shahrukh Adnan Khan, Moshir Rahman, Farhana Mou, A Statistical Analysis of Smart Living Demands: Technological and Socio- Economical, *Special Issue of Energy Efficient Technology- Crowd Energy, JEST Journal*. [Under Review] (1st Author) SCOPUS (Elsevier)

International Peer Reviewed Conferences

22. **MD Shahrukh Adnan Khan**, M Abdullah Al Amin, Masum Howlader, “A Novel Low Voltage Application Based Intelligent Control System for Hybrid Energy Storage”, **IEEE International Conference in Smart Grid and Clean Energy**, UTAR, Malaysia, May 28- June 1, 2018. (1st Author) IEEE
23. **MD Shahrukh Adnan Khan**, Sultan Mahmood, Moshiur Rahman, “Differential Quadrature Phase Shift Keying Modulation in Optical Fibre- Modelling, Design, Case Implementation and Limitation”, **IEEE 4th International Conference on Advances on Computing, Communication and Automation**, Malaysia, October, 2018. (1st Author). IEEE
24. **MD Shahrukh Adnan Khan**, Kazi Mahtab Kabir, Md. Redwan Hasan, Raufur Ahmed Khan, “Investigation of Advanced Implementation of Permanent Magnet Synchronous Generator in Renewable Energy”, **IEEE 7th International Conference on Power and Energy (PECon 2018)**, Malaysia, December, 2018. (1st Author). [Status: Accepted] IEEE
25. Munmun Akter, MD Shahrukh Adnan Khan, Sultan Mahmud, “Advanced Technical Comparison Analysis of Asian Satellites”, **4th IEEE International Conference on Advances in Computing, Communication & Automation**, Malaysia, October 2018. [Status: Accepted on September 2018] IEEE
26. Mahmudul Alam, **MD Shahrukh Adnan Khan**, Md. Khairul Alam, Anas Syed, Rajprasad Rajkumar, “Industrial Level Analysis of Air Quality and Sound Limits Monitoring in Bangladesh using Real Time Control System”, **30th International Research Conference on Vibroengineering**, Phuket, Thailand, Dec 14-16, 2017. SCOPUS (Elsevier)
27. **MD Shahrukh Adnan Khan**, Md Masum Howlader, Muhammad Ahad Rahman Miah, Sakhawat Hossen Rakib, Abdullah Al Amin, Sharsad Kara Kuni, “Performance Analysis of Receiver Power Sensitivity of Advanced Modulation Formats In WDM Based Standard Mode Fibre For Next Generation Data Rate”, **IEEE 4th International Conference on Advances in Electrical Engineering**, p-7466, Dhaka, Bangladesh, September 2017. (1st Author) IEEE
28. **MD Shahrukh Adnan Khan**, Sharsad Kara Kuni, Rajprasad Rajkumar, Anas Syed, Masum Hawlader, Md Moshiur Rahman, “Instantaneous charging & discharging cycle analysis of a novel supercapacitor based energy harvesting circuit”, **AIP (American Institute of Physics) Conference Proceedings**, December 2017. (1st Author) SCOPUS (Elsevier)

29. **MD Shahrukh Adnan Khan**, Sharsad Kara Kuni, G.K.M. Sadikul Amin, Mukul Agrawal, “Graphical User Interface for the Input/Output Characterization of Single Variable and Multivariable of Highly Non-linear Systems”, *MATEC Web of Conference, International Conference of Mechanical, Automotive and Aeronautical Engineering*, Vol-108 (910005), Malaysia, 2017.(1st Author) SCOPUS (Elsevier)
30. Md. Masum Howlader, Md. Masum Howlader, Md. Rokonzaman, **MD Shahrukh Adnan Khan**, Aziz Un Nur, Abdullah Al Amin, “GIS- Based Solar Irradiation Forecasting Using Support Vector Regression and Investigations of Technical Constraints for PV Deployment in Bangladesh”, *IEEE 4th International Conference on Advances in Electrical Engineering*, p-7448, September 2017. (1st Author) IEEE
31. Muhammad Sartaj Khan, Aravind CV, Charles R Sarimuthu, **MD Shahrukh Adnan Khan**, “New Generator Topology for Wind Power Generation”, *7th Eureca International Engineering Research Conference*, p- 23, Subang, Malaysia, 2016.(1st Author).
32. Izuan Fahmi, **MD Shahrukh Adnan Khan**, Aravind CV, Rajprasad Rajkumar, Dino Isa, “Design of a Half-Bridge DC/DC Converter for Supercapacitor based Hybrid PV Storage System”, *7th Eureca International Engineering Research Conference*, p- 23, Subang, Malaysia, 2016.(1st Author).
33. Sharsad Kara Kuni, **MD Shahrukh Adnan Khan**, Mahmudul Alam, M. Abdullah Al-Amin and Md. Masum Howlader, “A Comparative Simulation Analysis of RZ & NRZ Modulation in Wavelength Division Multiplexing for Long Haul Single Mode Fibre”, *International Conference on Mechanical Engineering and Applied Science*, Dhaka, Bangladesh, p-209, February, 2017.(1st Author).
34. **MD Shahrukh Adnan Khan**, C.V. Aravind, “Universal NI Data Acquisition Graphical User Interface for LabVIEW based Wind Energy Harvesting”, *National Instrument Engineering Regional paper*, Singapore, September 2016. (1st Author).
35. **MD Shahrukh Adnan Khan**, Rajprasad K. Rajkumar, Rajparthiban K. Rajkumar, CV Aravind, “Optimization of Multi-Pole Permanent Magnet Synchronous Generator based 8 Blade Magnetically Levitated Variable Pitch Low Speed Vertical Axis Wind Turbine”, *2nd International Conference on Power Science and Engineering (ICPSE 2013)*, Paris, France, December 20-21, 2013.(1st Author).
36. MD Shahrukh Adnan Khan, Kazi Mahtab Kabir, Rezwan Khan, “Simulation and Analysis of Photovoltaic System with Interleaved Boost Converter”, *3rd IEEE International Conference on Electrical, Computer and Communication Technologies, India*, October 2018.[Status: Under Review] IEEE

Teaching Courses

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|---|
| ▪ Electrical Machines II (EEE) 2 nd Year, 2 nd Semester |
| ▪ Digital Electronics and Pulse Techniques (EEE) 3 rd Year, 1 st Semester |
| ▪ Opto- Electronics (EEE) 4 th Year, 2 nd Semester |
| ▪ Basic Electrical Engineering (CE) 1 st year, 1 st Semester |
| ▪ Electronic Circuit I (EEE) 2 nd Year, 1 st Semester |
| ▪ Basic Electronics / Analog Electronics I |

Supervision

- 5 BEng Students (Final Year Project/Thesis) completed (2016-2017)
- 8 BEng Students (Final Year Project/Thesis) ongoing (2017-2018)

Faculty Key- Position and Administrative Responsibility at University of Asia Pacific

1. **Research Group. Department of Electrical and Electronic Engineering**
 - Member (Secretary) of the Research Committee, Dep. Of EEE
2. **Self- Assessment (SA) Committee member, Department of EEE, University of Asia Pacific**
3. **Committee Member, UAP, Power and Energy Week 2018, Ministry of Power Energy and Mineral Resources, Bangladesh**

4. IEB Accreditation Preparation- Team Member, University of Asia Pacific
 5. In Charge- Research Publication, Dep. Of EEE, IEB Accreditation Team, University of Asia Pacific
 6. Convener (EEE), Press and Media, University of Asia Pacific
 7. International Office, Departmental Representative of EEE Dep.
 8. Mentor (Team Asia Pacific), Energy Power Week-2018 under Ministry of Power Energy and Mineral Resources
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I.T. & Computer Experience

- Software: Cscape, OptSim, Optisystem (Optiwave), MATLAB, Simulink, Simscape, PSPICE
- Programming languages- C++, C, HTML
- Skilled at Presentation and Any sort of Report writing

Language Proficiency :
▪ Proficient in reading, writing, listening and speaking English
▪ Completed Upper Intermediate Course From British Council, 2004 and scored 7.00 in IELTS in 2007

Co-curricular activities

University Level:

- **President of “The Bangladesh Society” (2010-2011):** Elected president since he was the pioneer of “The Bangladesh Society” at University of Nottingham.
- **President of Nottingham Chess Club (2010-2011):** Elected president of “Nottingham Chess Club” among all the students of Nottingham University in the year of 2010.
- **International Student Welfare Officer (2009-2010):** Selected as the **International Student Welfare Officer** in the University of Nottingham who had been working with the welfare of the students regarding transport, safety, food as well as their financial, educational and personal matters which is one of the most important posts in the Student Association.

- ***Security and Safety In Charge:*** Appointed as the ***Security and Safety In Charge*** of the Student Association that deals with anything related to the security of the University as well as the safety of the students staying off and on campus.
- ***Executive Officer of the International Students' Bureau (200-2010):*** Chosen as one of the executive officers of the ISB that consists of 40 ambassadors of different countries.
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Social service: Active social worker and having a great interest in community service. Participated in Fund-Raising Campaigns, Blood-Donation, Worked with under-privileged children under literacy program and so on.

College level:

Club-performance:

- ***“President” of Notre Dame Science Club.*** It is worth mentioning that this was the biggest club in college level in Bangladesh in that period.

Positions of responsibility: He was appointed as “The Volunteer In-Charge” In the “Golden Jubilee, 2005” of Notre Dame Science Club. It is worth mentioning that till that time it was the biggest program ever taken place in college level in Bangladesh.

Industrial Detailed Work Experience:

- **Trainee Engineer in PTT Exploration and Production Public Company Limited, Thailand (June 19, 2010-September 19, 2010):**

Work Scope:Electrical, Electronic and Instrumental

The main project assigned:

To replace RS- 485 to wireless signal at WSA Beam Pump in *Sirikit (S1) Oil Field*

Supplementary Study:

- **Supervisory Control and Data Acquisition (SCADA) Architecture and Topology,**
- **Cscape Software and Program Analysis,**
- **How Beam Pump Works,**
- **Data Transformation from Beam Pump to SCADA**

Construction Activity(ECM/E):

- Study of Overhead Line Schematic Design
- Practical and theoretical concept of Cable Spacer, Lightning Arrester, Insulation, Drop out fuse cut- out
- Overhead Line Installation
- Cscape Software download in ESP Pump
- DSO seminar
- Theoretical study and practical inspection of Special motor driven in oil field namely ESP, PCP and Beam Pump
- DC Uninterruptible Power Supply Installation
- Gas Fire Heater Installation
- Installation of wireless line replacing the RS-485 at WSA Beam Pump

Maintenance Activity (DSO/M):

- Introduction to S1, Maintenance Concept
- Single Line Diagram and S1 power distribution
- High Voltage and Low Voltage Switchgear
- Maintenance and Operation of Gas Turbine Generator
- Generator Control (frequency and voltage)
- PMS (Power Management System)
- Load Shedding
- Maintenance System and its Classification
- Schematic Diagram Analysis
- Ladder Diagram Analysis
- PLC (Programmable Logic Converter) Workshop
- Overhead line Inspection, Auto Re-closer, Load break Switch, High Voltage Test
- Current Harmonic and Voltage Harmonic Test
- VSD (Variable Speed Drive)
- Thermo Scan
- Motor Maintenance (Vibration Monitoring)

Training with Bangkok Engineering Team: **(EET/T)**

- Basic Power System Parameter
- Power/Distribution of transformer
- Inspection of Transformer Factory for fault analysis
- Induction motor
- Electrical Cable and Rated Parameter

• **Trainee Engineer in BJ Services, Middle East Branch, Bangladesh (June 19, 2009-September 19, 2009):**

Work Scope : Instrumental, Mechanical

Work Place : Laboratory and Field

Description : Did undergo industrial Training with BJ Services (Middle East Branch) in the year of 2009. Practically as well as theoretically experienced and gathered knowledge on the subject of primary cementing, methodology of it, job classification as well as how to prepare cement slurry in laboratory by performing the following tests:

1. **Rheology Test**
2. **Consistency Test**
3. **Free water Test**
4. **Fluid Loss Test**
5. **Thickening Time Test**
6. **Compressive Strength Test**

- Skilled in operating **Rheologymeter, Fann Viscometer, Atmospheric Consistometer, Fluid Loss Cell and Pressurized Consistometer.**
- Field work had been done time to time during three months of internship though most of the time had been working at laboratory.
- Completed three projects under the District Engineer of BJ Services at Dhaka Branch namely:

1. **Oil & Gas Industry: project 1- About BJ Services**
2. **Oil & Gas Industry: Project 2-Basic Theory of Primary Cementing**
3. **Oil & Gas Industry: Project 3-Laboratory Test of Cementing**

Reference

| | |
|---|--|
| <ul style="list-style-type: none">▪ Professor Dr. Tapan Kumar Chakrabarty Professor & Head of EEE University of Asia Pacific, 74/A, Green Road, Dhaka, Bangladesh. <p>Telephone: +8801716157706 tkc@uap-bd.edu</p> | <ul style="list-style-type: none">▪ Professor Dr. Kazi Mohiuddian Ahmed Professor University of Asia Pacific, 74/A, Green Road, Dhaka, Bangladesh. <p>Telephone: +8801763434333 Mohiuddin-eee@uap-bd.edu</p> |
| <ul style="list-style-type: none">▪ Dr. CV Aravind (C.Eng.) Program Director, Electrical and Electronic Engineering. Taylor's University 1, Jalan Taylors, 47500 Subang Jaya, Selangor, Malaysia Telephone: +6 (03) 5629 5000 chockalingamaravind.vaithilingam@taylors.edu.my | <ul style="list-style-type: none">▪ Professor Dr. Andy Chan Professor & Dean Faculty of Engineering & Science University of Nottingham Malaysia Campus, Jalan Broga, Semenyih, Selangor, 43500, Malaysia Telephone: +6 (03) 89248144 andy.chan@nottingham.edu.my |
| <ul style="list-style-type: none">▪ Dr. Rajprasad Rajkumar Deputy Director, CIDA (Centre for Interdisciplinary Data Analytics) Associate Professor, Department of Electrical and Electronic Engineering. University of Nottingham Malaysia Campus, Jalan Broga, Semenyih, Selangor, 43500, Malaysia Telephone: +6 (03) 8924 8377 Email: Rajprasad.Rajkumar@nottingham.edu.my | |