

Mehedy Hasan

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Career Profile

An assured and technically oriented MSc in Electrical & Electronic Engineering from American International University-Bangladesh. Possessing extremely valuable project-based experience within degree, enhancing professional skills, with particular technical expertise using different types of software. Confident managing technical projects as project lead, ensuring a structured and holistic approach to completion. Now looking to further utilize professional skills through as an Electrical Engineer.

Educational and Qualifications

2014 – 2015 **American International University – Bangladesh**

M. Sc. in Electrical & Electronic Engineering

Final Year Project: An optimized model of hybrid energy for economic system of Saint Martin Island, Bangladesh.

- Design & simulation of renewable energy for St. Martin Island using Homer software.
- Successfully developed a hybrid energy system which is efficient and utilizable for the St. Martin Island's inhabitants.

2009 – 2013 **American International University – Bangladesh**

B.Sc. in Electrical & Electronic Engineering

Final Year Project: Design & simulation of dual-axis solar tracker using microcontroller and RTC (Real Time Clock) chip.

- The designing of a solar tracker system which can rotate on dual axis to absorb sufficient sun light to increase the efficiency of the system.
- Simulation, implementation, testing and analysis to increase the efficiency of the solar tracker.

Relevant Professional Experience

10/2018 – Present **Manager, Sub-Station Department: Techno Venture Ltd., Ashulia, Savar, Dhaka**

- Established Sub-Station department in the company successfully by creating Sub-Station team for manufacture sub-station equipment (HT, Transformers, LT, PFI, DB, etc.). Also created the installation, commissioning team to energize the sub-station.
- Design and build sub-station equipment manufacturing facility/shed of 5408 sq ft. Facility containing Mechanical Section, Powder Coated Paint Section, Heating Chamber, Electrical Assembling Section, Store, and Office.
- Successfully handover 17 no's 11/0.415kV electrical substations of different customers like Shipyard industry, RMG Sector, Glass Door/Window Assembling factory, Nursing College, Chemical Industry, Residential Buildings, etc.
- For any kind of electrical substation project offer, prepared design, drawing, costing, and calculation of demand load of different types of industrial, commercial electrical substation and submit the quotation for manufacture, supply, installation, testing, and commissioning of the required substation equipment (e.g., HT Switchgear, Distribution Transformer, ATS/Manual Changeover Panel, LT Switchgear, Power

Factor Improvement Panel (PFI), Distribution Board (DB), Manual/Inverter Motor Controlling Panel, any kind of customer desired panel etc.).

- Maintained Accounts database for all projects. Calculate every project expense and submit a monthly financial report to the Directors mentioning each and all projects receive, due, expense, and forecast expense amount including the profit ratio. Submitted individually yearly turnover report of Substation Department to the Directors, Managing Director, and Chairman.
- Design, drawing, and fabrication of 1000kVA Substation equipment in TVL premises for **DUET** Certification. Received DUET Certification of 630A HT Switchgear, 1000kVA, 11/0.415kV Distribution Transformer, 2000A LT Switchgear, 600kVAR PFI Plant.
- Analyzed, compare each and every item of the substation equipment following own database of procurement materials before purchasing. Provide direction, suggestions to the procurement team to source, purchase quality full, and reasonable materials.
- Issued ELB - ABC License for Techno Venture Limited. Prepared Electrical Licensing Board (ELB) documentation, arrange inspection schedule, Solar supply, Line Connection documentation, and energize the substation.
- Ensure quality of manufacturing switchgear, testing, branding, QC, logistics support before delivery. Provide solution, design, drawing, and technical support to the customer to supply the power to the desired location.
- Provide 24x7 full support and troubleshooting solutions to the customer after energizing the project to operate the project smoothly and for the company's fame.

➤ **Tender Part:**

- To participate in the 33/11kV, 10/14MVA Substation Projects of Bangladesh Rural Electrification Board (BREB), sourced and formed a Joint Venture deal with another company.
- Prepared each and every document of **JV - MOU**, Payment and mutual agreement, Consortium, Power of Attorney, etc. to form the JV.
- For participation in **BREB/BPDB/PGCB/DESCO/DPDC** etc. project, sourced Power and Station Transformer, OVCB, CT, PT, Lightning Arrester, Isolator, Disconnect Switch, 11kV AIS Panel, Battery and Charger, Cables, Gantry Structure, CRP materials, etc.
- Prepared the tender submission documents fully with JV partners, issue BG, PG, Bank Solvency, Credit Facility suggested materials costing price, budget to the higher management and participated in 33 no's BREB AIS 10/14 MVA Substation and 5 no's Bay Extension-Switching Station in different locations.
- Have depth knowledge of high voltage electrical items for supply, installation, and turnkey projects of **AIS** and **GIS** Substation.
- Awarded 5 no's Substation of 1x10/14MVA and 1 no's 2x10/14MVA Substation of **BREB – RRKB** and **DMCS** in different **PBS**.
- Day to day communicate with the supplier, visit factories, RFQ, negotiate the price of the Electrical high voltage equipment of Danish India Pvt. Ltd., ABB, Siemens, Pragati Electrical India Ltd., CG Power Ltd., Project Electrical India Ltd., HBL, Raychem, etc.
- Every correspondence prepared, maintain, and handled regarding clarification, tender acceptance, contact agreement, drawing approval, modification, PSI, PLI, etc. between BREB and JV consortium.
- Place work order, PO to the supplier of equipment after negotiating, issue PI, produce LC draft, LC opening, FAT, dispatch clearance, B/L, D/O copy, etc.

- Negotiate with the C&F agent for customs clearance. Compare and analyze HS code, logistics support to clear the substation equipment at a low rate from the port.
- Jointly give decision with JV concerns for civil and electrical work execution of the projects and regular visit the project to expedite the site work.
- Successfully finished the civil and electrical site work of Jessore, Sharsha-4 BREB 33/11kV, 10/14MVA project. Rest 5 no's work is ongoing in full swing.

Projects (Techno Venture Ltd.):

- Design, Supply, Installation & Commissioning of Electrical Substations (11/0.415kVA):
 - 315kVA - Desh Corporation – Shipyard in Meghna Ghat, Narayanganj
 - 630kVA - CKGE Glazing Unit in Pubail, Gazipur
 - 2000kVA - Grameen Caledonian College of Nursing in Uttara, Dhaka
 - 200kVA - Dhamrai Dry & Wet Process in Dhamrai, Dhaka
 - 100kVA - 8 Storied Residential Building in Moghbazar, Dhaka
 - 250kVA - 6 Storied - Residential Building in Moghbazar, Dhaka
 - 1000kVA - 16 Storied Hamid Tower Commercial Complex in Gulshan, Dhaka
 - 150kVA - 8 Storied Residential Building in Aftab Nagar, Dhaka
 - 150kVA - 10 Storied Hatir Jheel Lake View - Residential Building in Moghbazar, Dhaka
 - 150kVA - 6 Storied Azad Engineers, Sector 12, Uttara, Dhaka
 - 500kVA - 12 Storied Millat Garden - Commercial Complex in Feni Sadar, Feni
 - 200kVA - Haji Ramjan Ali Calender Mill in Shahzadpur, Gangaprashad, Sirajgonj
 - 750kVA, OLTC - Three Angle Marine Limited in Rasulpur Ghat, Gozaria, Munshiganj
 - 500kVA - Ax Polymer Ltd. in Gairabetil, Hatuvanga, Tangail
 - 200kVA - Printochem Ltd. in Dogori Bazaar, Gazipur
 - 150kVA - Hridoy Rifat Industries Ltd. in Bondor, Narayanganj
 - 400kVA - LGED Project in Mohammadpur Kendryio College, Mohammadpur, Dhaka
- Design, Supply, Installation of Substations Equipment to **Mosharof Group** and other industries:
 - 3200A & 1600A LT Switchgear with Electronic Interlocking System
 - 250A Manual Changeover Panel, 600kVAR PFI, 70kVAR PFI
 - LT, DB, SDB, PFI and Metering Panel for Industries and Residential Complex
- Special Task:
 - Enlisted Techno Venture Limited in Dhaly Construction Ltd. for supply Single Phase Transformer in different locations of the Country for Telecom BTS.
 - Regularly marketing, sold, repair of Single and Three Phase Distribution Transformer

4/2018 – 9/2018

Manager, Service Department: Shaheen Electric Company, Kunia, Gazipur

- Design and calculation of demand load of different types of industrial, commercial electrical substation and submit the quotation for manufacture, supply and installation of the required HT Panel, Transformer, ATS, Manual Changeover Panel, LT Panel, Power Factor Improvement Panel (PFI), Distribution Board, Manual Motor Starter Panel etc.
- Responsible and lead the team of automation to installation, support and repair of LS Inverters (from 0.37kW to 280kW).
- Have depth knowledge of LSIS brand's MCB, MCCB, ACB, VCB, Magnetic Contactor, Thermal Overload Relay, Starter, Busbar, Power Capacitor (Shizuki-Japan, Eunsung-Korea), LS – Inverter etc.

- Worked and dealt on various projects with LS foreign engineers. Worked on the Substation projects of 1600kVA, 11/0.415kV - Ted Bernhardt Int'l Textiles Ltd-Kunia, Gazipur) and 3000kVA, 33/11/0.415kV - Chhuya Agro Products Ltd-Kapasia, Gazipur.
- Responsibility for production output of different types of HT and LT Switchgears, ATS, MCO, PFI Panel, MDB, SDB etc. Also responsible for maintaining product quality and on-time delivery to the customers.

1/2018 – 3/2018 **Electrical Design Engineer, Kaleek Consultants Ltd., Lalmatia, Dhaka (Part Time)**

- Design of electrical equipment, HVAC, telephone & public address, power and control cable rating etc. fitting and fixture layout, design of control and power cable conduit
- Design of full electrical system, load calculation & panel board schedule, substation, lightning protection and grounding system

Projects (Kaleek Consultants Ltd):

- G+8 Storied - District BAR Association Office Building, Narayanganj
Client: Narayanganj District Bar Association
- Zimkhana Alauddin Stadium, Narayanganj
Narayanganj City Corporation
- Ali Ahammed Chunka Stadium, Facility: Stadium Bridge & Playground, Narayanganj
Client: Narayanganj City Corporation
- G+9 Storied – Residential Building, Dhanmondi Residential Area, Dhaka
Client: Vistaara-Innstar Joint Venture Project

9/2017 – 12/2017 **Project Engineer: Abis Contracting Est., Yanbu, Saudi Arabia**

- Worked at **Marafiq** store in Royal Commission of **Yanbu** for **General Electric (GE)**.
- Calculated demand load of different types of power & water desalination plant equipment. Energized equipment's built-in heater to prevent condensation.
- Designed, installation and commissioning of step down 10kVA, 3 Phase Distribution Transformer, MDB, SMDB, Cable Trunk, Bus Bar Trunk etc. following standardization.
- Installation of 13.8kV Ring Main Unit (RMU), Transformers as required, MV cables, EMT-Rigid Conduit, Main Distribution Panel, Sub Main Distribution Panel.
- The equipment was 600V HT switchgear, starting motor, damper geared motor, damper actuator, blower, extra severe-duty ac motor and 13.8kV Generator Circuit Breaker etc.

1/2017 – 8/2017 **Electrical Site Engineer: Abdul Aqil Al-Mahdali Contracting Est., Jizan, Saudi Arabia**

- Full in-charge of **Jizan Military City's** sub-contracting project. Managing project cost calculation, estimation of electrical site work and managing accounts.
- Testing and installation of generators, transformers, circuit breakers, panel board, EMT conduit, lighting fixtures, Cable laying and termination at different buildings, complexes of sector 3 at Jizan Military City.
- Installation of Access Control System, Data & Telephone, Public Address, CCTV, Audio and video system at different buildings of sector 3 at Jizan Military City.

1/2015 – 12/2016 **Support Engineer: 2RA Technology Limited, Mirpur, Dhaka**

- Worked as full in charge of the Grameenphone ACS project. 2RA Technology Ltd. is an enlisted umbrella vendor company of Grameenphone Limited.
- Implementation, testing & support service of Access Control System (ACS) & low current device for the Base Transceiver Station (BTS).

- Took part in 24/7 phone support to be the first point of contact for urgent issues reported by the stakeholders. Maintained the product quality, delivery, challan, documents, planning, etc.
- Produced and submitted the bills of ACS and keeping records of the supplied devices.

Projects (2RA Technology Ltd):

- Cost calculation & projection of BTS Protection Project (BPP). Manufactured 10,000 2RA ACS for Grameenphone Ltd (BPP) with 100 workers in 4 months.
- Lead a software team to launch a website to access all BTS's Access Control System under an IP-based network system in 3 months.
- Installation and maintenance of Access Control System on BTS all over the country.
- Managed & ensured product's controller & electronic bolt lock protection from thundering & disaster by visiting sites all over the country by a large team in 3 months.

Additional Employment Experience

1/2014-12/2014 **Customer Support Engineer: Edison Group (Symphony Mobile)**

- Lead a technician team to solved faulty mobile phones by following provided plan to reach the target of ERP & maintained KPI regularly, gave technical & software solution of mobile phones, served customers problems and provide necessary information.

Skills

Keywords: Tender Specialist, Project Management, Cost Control, Designing, AIS, GIS
Computer Software: Microsoft Office, AutoCAD, Microsoft SQL Server, Homer, SCADA, Linux system, Adobe Lightroom & Photoshop and have self-education skills knowledge about PHP, Python, Java, Networking & Computer's Hardware details.
Communication: Delivering presentations- introducing Access Control System of 2RA brand for different customers like **Grameenphone, Banglalink** etc. Effective listening, questioning and advocacy- supporting customer issues.
Language: Fluent speaking in English, Hindi, Bengali and good in Arabic.

Interests and Achievements

Memberships: Member of Institution of Engineers Bangladesh (IEB): Membership No. A-15619.
Photography: Interested in nature and product photography. Worked as a photographer to brand a product of 2RA Access Control System.
Travel: Exploring new places, understand different cultures through motorcycle riding.

Personal Information

Name: Mehedy Hasan
Date of Birth: 6th November 1991
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