REMON DAS

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CAREER GOAL

To pursue research and development in the field of Electrical & Electronics Engineering (EEE) (i.e., power system, electronics, power electronics, energy conversion, Power Plant Engineering etc.) where I can demonstrate my technical and experimental skills and contribute to the development of this Electrical & Electronics arena, I have avid passion for.

EDUCATION

[i] **Masters of Business Administration (MBA)** in **Supply Chain Management (SCM)** from Bangladesh University of Professionals, Bangladesh.
Grade Point: 3.68 out of 4   : April, 2017

[ii] **Bachelor of Science (Honors)** in **Electrical and Electronics Engineering (EEE)** from International Islamic University Chittagong (IIUC), Bangladesh:
Grade Point: 3.85 out of 4   : April, 2014

[iii] **Higher Secondary Certificate (HSC)** from Islamia Degree College, Chittagong, Bangladesh:
Grade Point: 4.10 out of 5   : July, 2009

[iv] **Secondary School Certificate (SSC)** from Kalipur Ezharul Hoque High School, Chittagong, Bangladesh:
Grade Point: 4.38 out of 5   : June, 2007

MBA THESIS

Thesis Title: Artificial Intelligence Based Transportation System for Logistic Management in Manufacturing Industry.

Objective: Develop a framework of an automated system in supply chain transportation system which is able to take the decision automatically. Investigate the proposals on the basis of extent to positive impact of the system software on the supply chain in manufacturing industry through survey and statistical analysis.

Achievements: The proposed system provides agent-based optimization and execution capabilities that automate order dispatching, a crucial phase of transportation planning. This system also is concerned with automating the negotiation over loads between different companies in a supply chain. At the core, the system also relies on a virtual market engine to distribute loads. This paper focused on the application of automated system to improve various basic logistics processes: shipping, transportation, receiving and in-facility operations. The greatest potential initially is probably in improving in-facility operations within retail stores, warehouses and distribution centers. Beyond the cost cutting and improve processes can be provide by using automated systems in various part of supply chain management. It can facilitate strategic improvements in store and warehouse operations and in network-wide agility.

B.SC. THESIS

Thesis Title: Design and analysis of a PI controlled Bi-directional DC to DC converter and a high efficient boost converter for Electric Vehicle Application.

Objective: Designing and simulating of a PI controlled bidirectional DC to DC converter and a high efficient boost converter over conventional bidirectional dc to dc converter and boost converter, respectively. Then apply this two designed devices into the electric vehicle application.

Achievements: We successfully designed and simulated a bidirectional DC to DC converter, in which PI controller was used for triggering the Insulated Gate Bipolar Transistor (IGBT) of DC to DC converter. Our designed bidirectional DC to DC converter is more efficient because of it's less output voltage variation with the input voltage variation and makes the converter more stable. Another advantage of this bidirectional DC to DC converter is that the distortion of the output voltage is less. In addition, we also designed and simulated a boost converter over conventional boost converter by using parallel combinations of IGBT and MOSFET. Afterward, we used the bidirectional DC to DC converter and boost converter for electric vehicle application. We simulated the two modes of the electric vehicle, such as motoring mode and regenerating mode. All the simulations in our thesis were done by MATLAB software.

IEEE PUBLICATIONS:

[1] **Das R**, Chowdhury UA, *"PI Controlled Bi-Directional DC DC Converter and Highly Efficient Boost Converter for Electric Vehicle"*, 3rd **IEEE** International Conference on Electrical Engineering and Information & Communication Technology (iCEEiCT-2016) at Military Institute of Science and Technology (MIST), Dhaka, Bangladesh on September 22-26, 2016 (DOI:10.1109/CEEICT.2016.7873094)

[2] **Das R**, Rashid H, Ahmed IU, *"A Comparative Analysis of PI and PID Controlled Bidirectional DC-DC Converter with Conventional Bidirectional DC-DC Converter"*, "3rd **IEEE** International Conference on Electrical Information and Communication Technology" at Khulna University of Engineering and Technology (KUET), Khulna, Bangladesh on December 7-9, 2017 (DOI: 10.1109/EICT.2017.8275149)

[3] Rashid H, Osman SB, Hassan N, Ahmed IU, **Das R**, Karim M, *"A New Design Approach of Home Automation System for Patients with Physical Disability to Reduce Water Wastage and Power Consumption using Renewable Energy"*, "4th **IEEE** International Conference on Advances in Electrical Engineering" at Independent University Bangladesh (IUB), Dhaka, Bangladesh on September 28-30, 2017 (DOI: 10.1109/ICAEE.2017.8255458)

[4] Faisal SMRF, Ahmed IU, Rashid H, **Das R,** Karim M, Reza SMT, *"Design and Development of an Autonomous Floodgate using Arduino Uno and Motor Drive Controller"*, "4th **IEEE** International Conference on Advances in Electrical Engineering" at Independent University Bangladesh (IUB), Dhaka, Bangladesh on September 28-30, 2017 (DOI: 10.1109/ICAEE.2017.8255366)

CONFERENCE PAPERS:

[1] **Das R,** Uddin MR, Islam M, Rashid H, Rahaman MS, *"A New Approach of Portable Smart Table for Interactive Class Room",* "International Summit on Employability & Soft Skills" at Daffodil International University, Dhaka, Bangladesh on March 23-25, 2017, P 19

[2] **Das R,** Das G, Sijanur R, Rashid H, "Imminent Sustainable Economic Development of Bangladesh with Coal Based Power Plants", International Conference On Sustainable Development (ICSD 17) at United International University (UIU), Dhaka, Bangladesh on February 16-18, 2019, P 147-155

[3] Rashid H, Ahmed IU, **Das R,** Newaj F, Reza SMRT, "Emergency Wireless Health Monitoring System Using Wearable Technology for Refugee Camp and Disaster Affected People", International Conference on Computer, Communication, Chemical, Materials and Electronic Engineering (IC4ME2-2017) at Rajshahi University (RU), Rajshahi, Bangladesh, on January 27-28, 2017,

[4] Hassan N, Rashid H, **Das R,** "Smart Health Management System for Rural Area of Bangladesh Utilizing Smartphone and NID", International Conference On Business & Management (ICBM 17) at Brac University, Dhaka, Bangladesh, on September 21-22, 2017, P 191-194

PRESENTATIONS IN BUSINESS SUMMITS

[1] **Das R**, Mazumder C and Das Gupta U, "Business Idea On Solar Based Universal Battery Charging Station" Presented at "Mecceleration 2016" Organized By: Department of Mechanical & Chemical Engineering, Islamic University of Technology(IUT) in IUT Campus on July 22, 2016.

[2] **Das R** and Das Gupta U, "Business Idea On Nakshi Kantha (Quilt), A Combination of South Asian and Bangladeshi Rural Culture" Presented at "3rd Annual Social Business Youth Summit" Organized By: SBYA Global in Westin, Dhaka, Bangladesh on August 12-13, 2016.

JOB EXPERIENCE

[1] Post: Engineer.
Company Name: Cross World Power Limited.
Location: Gulshan-2, Dhaka.
Duration: 15th March 2015 to till now.
Responsibilities: To advise and assist preparation and documentation of different projects for installation and maintenance of electrical projects such as Generator, Substation, Bus Bar Trunking (BBT), Electrical wiring etc. To produce general electric design (HT & LT switch gear, DB, SDB, MDB and PFI panel, wiring diagram etc.) To support Generator setup preparation with installation, To oversee design, technical specification, installation and commissioning of electrical equipment and assembling projects, To communicate with the different vendor and compare the quotation, and provide the proper vendor for projects.

[2] Post: Assistant Engineer (Design & Marketing)
Company Name: Automation Engineering & Controls Ltd.
Location: Uttara, Dhaka.
Duration: 19th July 2014-14th March 2015 (8 Months)
Responsibilities: To produce detail 2D drawing of HT switchgear, LT switch gear, DB, SDB, MDB and PFI panel according to offer, To produce different parts and other technical drawings of transformer, BBT drawing (2D & Isometric), To produce any other Technical drawing (Wiring diagram, control circuit wiring diagram, earthling details, layout plan etc) as per requirement, To provide technical support on PLC & Inverter, Site Survey, Requirement Analysis, System design, Prepare Price Quotation & Final Offer Submission.

OTHER CERTIFICATION

[1] Auto CAD (Computer Aid Design)   June, 2012
    (Electrical Drawing, Mechanical Drawing & Civil Drawing in 2D & 3D)
    "New Horizons" Computer Learning Center, Chittagong, Bangladesh.

[2] Computer Office Application course.   June, 2010
    (Ms. Word, Ms. Excel, Ms. Access, Ms. Power point, Basic Hardware concept, Internet & E-mail.)
    "BYTA" Computer Education, Chittagong, Bangladesh.

[3] Lab-based Communicative English Language Training Course   May, 2010
    Foreign Language Training Center (FLTC), Chittagong, Bangladesh.

COMPUTER SKILLS RELATED TO EEE

--C Programming.	--MATLAB 7.	--P Spice.
--Proteus.	--Orcad 9.2.	--Ms. Visio.

INDUSTRIAL ATTACHMENT/TRAINING

[1] "Industrial technology on Electrical Engineering & Instrumentation" at "Training Institute for Chemical Industries (TICI)".
Location: Polash, Norsingdi, Bangladesh
Duration: 07th December, 2013 – 30th December, 2013 (120 hrs)   : Grade: A+

[2] Industrial training on "Electrical Automation & Instrumentation" at Sheema Automatic Re-Rolling Mills Ltd.(SARM)- Manufacturer of Grade-40, Grade-60 & Supreme 500W Deformed Bar.
Factory: Banur Bazar, Bhatiary, Sitakunda, Chittagong, Bangladesh.
Duration: 1st October 2013 – 3rd October 2013 (3 days)

[3] Industrial training on "Bakalia Substation Bicroy abong Bitaran Bivag (Sales & Distribution)"
Location: Bakalia Substation, Bangladesh Power Development Board(BPDB), Chittagong, Bangladesh.
Duration: 15th June 2013 (1 Day)

PARTICIPATION IN WORKSHOPS AND SEMINARS

[a] Workshop On Microcontroller (PIC16F887)
Organized By: E.E.E. Club of International Islamic University Chittagong (IIUC), at IIUC Campus, Bangladesh.
Presented By: Mohammed Abdul Kader, Lecturer, EEE, IIUC.

Duration: 1 Day

[b] Seminar on the Industrial Experience Sharing on PLC and Instrumentation.
Organized By: E.E.E. Club of International Islamic University Chittagong (IIUC), at IIUC Campus, Bangladesh.
Presented By: Md. Ariful Alam. Assistant Engineer of ABUL KHAIR GROUP OF BANGLADESH.
Date: 17th Dec. 2012

[c] Workshop on "Social Business Plan and How to Solve the Social Problem by Innovative Ideas"
Organized By: Social Business Youth Alliance (SBYA) at EMK Center, Dhaka, Bangladesh
Presented By: Prof. Jahangir Alam, Professor, IBA, Dhaka University.
Date: 17th May 2016

PROJECT ACCOMPLISHED IN UNDERGRADUATE LEVEL

[1] "Digital Traffic Control Designing"(Platform: Logic gates and Boolean functions.)
Project Goal: This project demonstrates the use of digital combination logic to achieve an automatic and efficient traffic light control system.
Achievement: Firstly, we develop a series of different states. For a specific four way cross road in the city, we had a total of 6 states which designated when each light will be "ON". After this, we form different equations by using k. maps for every state. Then we implemented all the equations into a circuit by the help of different logic gates for each state and specific time, where each individual light will turn "ON" automatically.

[2] "Automatic night lamp and Morning Alarm" (Platform: LDR sensor)
Project Goal: This project automatically turns on a night lamp light when bedroom light is switched off until the light sensor senses daylight in the morning. When the sensor detects the daylight in the morning, a melodious morning alarm sounds.
Achievement: We designated this electronic based project by using the properties of LDR (Light Dependant Resistor) and monostable operation of NE555 timer IC. Then we implemented the circuit successfully on breadboard.

[3] "Student Information System" (Platform: MS-DOS, Language: C)
Project Goal: This project deals with the development of education services. The goal is to learn the proper use of different functions in C language.
Achievement: It stored the record of students which consists of student name, address, roll number, age, class test number, examinations result and the position of the student.

[4] "Result Processing System" (Platform: MATLAB)
Project Goal: To produce the result of the student based on getting marks in the examinations and also develop the programming skill in MATLAB.
Achievement: It is a programming based project. I developed a program in MATLAB which was able to calculate the exam number of the students and find out the position of the student. The searching option was also included in this program which is their ID number.

REFERENCE CONTACTS

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