Ariful Islam Arif

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EDUCATION

Daffodil International University (DIU)   Daffodil, DIU
Electrical and Electronics Engineering (EEE); GPA: 3.25/4.00   Jan 2020
Coursework: Core Statistics, R Programming, Predictive Analytics with Python (Machine Learning), Causal Analytics with R (A/B Testing), Social Media Analytics (NLP), Data Management, Big Data, Pricing Analytics

Dhaka Polytechnic Institute (DPI)   Dhaka Polytechnic, DPI
Electronics Engineering; GPA: 2.82/4.00   2015
Dean's List (all attended semesters); Top 5 graduated student
Coursework: Business Analytics, Linear Models, Management Information Systems, Econometrics

EXPERIENCE

Polisea S.A   Craiova City, RO
Automation and IoT Engineer (Software, IoT & Industrial Automation)   Jan. 2020 – Present
- Developing RESTful API and IoT cloud and local platform by using Node.js, Express.js, HTTP, MQTT and MongoDB for data storing and analytics. For the Dynamic Frontend Dashboard, we are using REACT, Redux, Materials-UI etc.
- IoT and IIoT for commercial and industrial automation by using Raspberry-PI, IoT-2040, LoRaWAN, NBIoT Module, PLC and Cloud computing. For instance, energy consumption monitoring, smart city parking, building automation with car parking, agricultural digitalization, and fleet tracking.
- Technical analysis of industrial processes and implementation of efficient technical-economic solutions in the field of electrical automation, Robotics, software design development and optimization by using Node-red, as well as commissioning service and training automation solutions based on PLC, VFD, HMI and SCADA.

Esquire Group   Dhaka City, BD
Electrical Engineer   May. 2017 – Dec. 2019
- Schedule and undertake periodic maintenance on all electrical equipment, components, and installations. Provide prompt response to inquires whenever there is a breakdown and resolve the issue as quickly as possible.
- Repairing, Modify and develop equipment and supervising and train Engineering and technical staff.
- Obtaining specialist components, fixtures, or fittings and managing budgets for procurements and statistical and financial records.
- Ensuring compliance with health and safety legislation for Electrical, Fire and Building safety according to NFPA.
- Creating maintenance procedures and managing spare stocks of supplies and equipment.

Mechatronics and Systems   Dhaka City, BD
Co-founder and Engineer (R&D)   Jan. 2016 – Dec. 2018
- Meeting with business management, marketing, and the R&D team to discuss product ideas.
- Conducting marketing research and evaluating similar products and their functions and collaborating with the engineering and marketing department on product feasibility. And overseeing the production process.

FEATURED PROJECTS (more details at https://arifulmrislam.github.io/minimal-portfolio/)

IoT Solution by LoRaWAN McDonald's: Monitor and Control Energy, Water and Gas consumption.
- Design a system by using a famous IoT platform SaaS and LoRaWAN based sensors
- Using Mikro Tik gateway for collecting and ChirpStack network server for decode values and send to application server.
- Used Dragion, Eastron, BMeter and Adeunis sensors brand.(Platform at Link, Link, Link, Link)

IIoT Solution (Industrial)
- To monitor and control the temperature of a water Chiller Unit and energy consumption.
- Used TTI server as a network server and send the value to the ThingsBoard application server.

ThingsBoard Platform Installation and Configure PostgreSQL Database.
- Using AZURE cloud platform to install and use SQL database.
- Device management, data collection, processing, and visualization for IoT project.

Monitor a system for one and more collection (details at Link**)**
- Technologies: Linux OS-ubuntu20.04, Docker, Influx DB (Time series database), Grafana (Data visualization platform), Node-Red (A flow-based programming tool), ChirpStack (Open-source LoRaWAN Network Server).
- Hardware's: Dell Edge Computer, Dragino Temperature and Humidity sensors, Mikrotik Gateway

SKILLS

Programming: C++, JavaScript, Go (Project label knowledge)
Automation Software: LOGO!Soft Comfort V8.3, Proteus 8 Professional, TIA Portal, WINCC Advanced.
Data visualization: DevOps tools, Docker, Kubernetes, SaaS, PaaS, IaaS and so on.