



MD ABDUL WAHID

ELECTRICAL & ELECTRONICS ENGINEER

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Address:

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Bengaluru

KEY SKILL

- Language: C,C++
- C, C++ Programme on Arduino, ESP32
- UART,I2C,SPI, CAN
- MQTT, HTTP
- Firmware update
- RTOS/IP address
- Firewall/LORA network/RF frequency
- Cloud based IOT sys.
- Smart Building/Real Time monitoring.
- HVAC Automation
- Analytics software
- Electronic Troubleshooting
- RCA
- Operating system windows,
- Lora wireless 865MHZ 870MHZ
- RJ45, RJ12 connector

Designation: Embedded IOT Engineer

Goal oriented professional experience in embedded IOT cloud based devices & development embedded programme in Arduino, ESP32 for smart meter IOT devices.

WORK EXPERIENCE: 10 YEARS

PROFILE SUMMARY:

- Developing embedded programme on arduino, esp32 for iot device smart meter master & slave.
- Designing developing & optimizing embedded software & hardware solutions.
- Expertise IOT based Energy management system, BMS, Project Management, preparing detailed BOM & BOQ, preparing & reading SLDs, solution design , power and control circuits.
- Installation, Testing, Commissionings of Electromechanical Equipment's LT switch gear, compressor-6000 CFM, D.G set, Distribution boards, Circuit breakers, Relay, Earthing, Tray, Wires, Cables, Raceway, lighting control panel, Power controlpanel, CCTV, UPS, Motor, PCC, MCC system etc. in Building, Infrastructure, Oil & Gas, commercial & Power Plant sector etc.
- Exposure in planning and effecting preventive, corrective and breakdown maintenance schedules of various electrical facilities and equipment; PLC , HMI ,VFD programming, ensuring zero/minimum breakdown as well as maximum availability of plant & machinery to increase up-time & equipment reliability.

❖ **Company:** kenergy Cube Pvt Ltd #BEST Energy (U.K)

❖ **Position:** Embedded IOT Engineer

❖ **Duration:** 01/05/2023 To Till date.

➤ **Roles & Responsibility:**

- Develop embedded software for smart meter microcontrollers esp32 using SPI, I2C, UART, CAN, Ethernet, WIFI, HTTPs etc.
- Develop & deploy IOT solution including sensor interfaces, data acquisition & cloud integration implementing communication protocols like MQTT, HTTP for IOT devices.
- Troubleshoot & resolve hardware/software integration issues.
- System design & building IOT system in resource & power constrained environments, MQTT, Embedded system development.
- Experience in embedded systems micro controller master & slave devices IOT devices & LORA network.
- Proficient in industry standard communication protocol like ModBus, Bacnet, LoRa, MQTT, Serial communication RS232, Rs485.
- Performing firm ware updates of slave devices Air sense, Air Temp, Air ambient.

- MAC Address, device address, IP address
- Familiar with cloud & web networking
- M2M sim
- Competency in networking technologies
- SaaS Software as a service
- SMA coaxial cable
- Ethernet wifi router
- RF connection device
- Lora wireless bands 865MHz to 870MHz & 915MHz to 925MHz
- PLC HMI VFD SCADA Programming Ladder Logic

- Proficient in C, C++, EmbeddedC language on embedded platform & familiarity with hardware design of embedded system.
- Familiar with IOT hardware platform, communication boards & gateways.
- Designing, developing & optimizing embedded software & hardware solutions.
- Familiar with developing embedded programme on arduino, esp32 & stm32 micro controller using SPI, I2C, UART CAN etc
- Commissioning of wifi router/switch WAN/LAN & assigning the IP address.
- Remote monitoring Real Time Data, Access Energy meter data using Analytics Software platform, Process the data as required by client shows scalar & python graph & value to the client for energy, power, current, PF & perday cost, sent report automatically via setting mail alert & sms.
- Familiar with manual IP & DHCP procedure to ping IP.
- Our IOT device micro controller based Smart meter master & slave perform Real Time Monitoring of Energy temperature, humidity, Light, moisture, cold storage temperature, CO2, pulse signal etc & controlling of HVAC & Relay based devices (0-10v, 4-20mA)
- Performing Logical programming for Automation of HVAC using IOT.
- Familiar to software analytics platform RTOS for Real Time data received from server system to IOTcloud system.
- Understanding of ASHRAE & other relevant standards.
- Familiar with IP MVP.

OUR CLIENT'S:

Bagalkot Cement Industries Limited: Bagalkot Karnataka

Jolly Board Limited: Aurangabad

Borosil Klasspack Limited : Nashik

Verdant Agro Horti Spawn Lab-Bagalkot Karnataka:

KPCL-BTPS (Karnataka Power Corporation Limited-700MW)

MRPL: Manglore Refiner Pvt Ltd-Manglore

Railtel: Hubli- KARNATAKA

BEML: Bharat Earth Moving Limited: KGF, Bengaluru, Karnataka

Railtel: KSR majestic Bengaluru, Karnataka

- **Company:** A.K Engineering Design & Build
- **Position:** Project Engineer
- **Duration:** Jan 2016 To April 2023

Roles & Responsibility:

- Installation of panel inside the skid, markup, drilling, channel, cable tray, power and control cable laying, glanding, termination MCT installation conduit & lighting work.
- All types of electrical lighting work DB dressing MCB installation.
- Ensuring the availability of electrical spare parts with minimum inventory cost.

ACADEMICS QUALIFICATION

- **M.Tech (EPS) JNTUH 2014**
HYD(70%dist .)
- **B.Tech (EEE) JNTUH 2012**
HYD

PERSONAL STRENGTHS:

Prefer smart & intelligent work from office

Fast adaptability of working environment

Stay focused in stressful situations

Quick Learner, Confident & Punctual.

Possess Effective Leadership & Communications skills (oral&written)

PERSONALDETAILS

D.O.B :20/10/1990
Nationality :Indian
Religion :Islam
Marital status :Married
Indian DL : up54 20130008151
Passport : Y4357773
Validity : 08/072034

- Installation of solar panel with ups & battery bank.
- Supervising to the team of HVAC & plumbing work.
- Supervising ELV Projects Installation & commissioning of CCTV, fire alarm access control system
- Installation & commissioning of BMS system field devices connection in DDC panel.
- Controller activates a controlled device (damper, valve actuator, Relay contactor) to produce a desired change.
- Digital control signal gives ON/OFF command for exhaust fan or OPEN/CLOSE status of a damper.
- Analog signal has variable value 0%-100% (0-10v/4-20mA) examples Temperature reading, Pressure reading(0-10v signal to a damper or valve actuator
- Automation of industry 4.0 using IOT cloud monitoring & online monitoring of DC based server system, giving access to the clients.
- Commercial & industrial automation using modern split up (open able) current transformer with secondary of 0.333 volt & Rogowski flexible CT.
- Experience in commissioning of IOT devices micro controller based smart meter - & slave devices which communicate on LORA network & fetch the data to the server system, provide cloud monitoring.
- Experience in commissioning of smart meter with eight monitoring port of Rj12 connector with ethernet & RS 485 communication.
- Familiar with digital devices MAC Address, device address, IP address.

❖ Company: BOC Gases Mumbai

❖ Job Title: Electrical Maintenance Engineer(Electromechanical)

❖ Duration: August 2012 To Jan 2016

• Roles&Responsibility:

- Operation&Maintenance of Switchgear (Schneider), LV Transformer(ABB), MDB(Schneider),Generators(CAT), UPS, Central battery System.
- Work on Energy saving projects and maintain the efficiency of refinery plant.
- Prepare Documentation and record management and regular follow up on monthly or weekly basis.
- Regularly scheduled testing maintenance and preventative maintenance of electrical system
- Troubleshooting of switch gears and control panels, pumps and motors.
- Monitoring and correcting the Power Factor.
- Maintenance of MCC and PCC Panels.
- Troubleshooting & PLC HMI programming & commissioning of VFD.
- Maintenance of UPS battery charges and Battery bank.
- Testing & commissioning of electrical equipment in plant.
- Develop and implement PLC programme for automation.
- Troubleshoot PLC hardware and software issues.
- Preparation of Work Distribution Schedule for routine maintenance.

Declaration:

I hereby declare that the above given information is true to the best of my knowledge.

MD ABDUL WAHID