Bhavik Bhansali

Location: **Mysore, Karnataka,**
India **Profiles:** **LinkedIn**

I have been working in Embedded Systems and IoT Systems design and development for more than 5.5 years. I am good with system design along with C, C++ and various protocols like I2C, SPI, UART, RS232, RS485 and Modbus. I have knowledge with multilayer PCB Design using Eagle and Fusion360. Also, work with Drone and Airplane with various flight controller and model aircraft systems.

Highest Qualification:

Name of the program	University	Result	Year
Bachelor of Engineering (Electronics & Communication Engineering)	Marwadi Education Foundation (MEFGI)/ (Gujarat Technological University)	7.3 CGPA	2017 (2018)

Work Experience: **(Total - 5.5 Years+)**

1. **Senior Software Engineer (Embedded System): L&T Technology Services** (Jan. 22 to Present)
   Job Responsibilities:
   - Design and development of various Embedded Systems.
   - Embedded C and C++ Code/Software Development with Embedded Linux and RTOS.
   - Working on Fire and Building safety products.
   - Development and Feature enhancement along with System debugging.
   - Communicating with client to understand the requirement.
   - System Requirement Document or System Design Document.
   - Working in team where 7+ Member are working.
   - Working under SCRUM master with Agile Method.

2. **Software Engineer (Embedded System): OAK System Pvt. Ltd.** (Aug. 2021 to Dec. 2021)
   Job Responsibilities:
   - Design and development of various Embedded Systems.
   - Embedded C and C++ Code/Software Development.
   - Working on Safety Critical Avionics System.
   - Using Various Avionics Standards like DO-178B and DO-254.
   - System Requirement Document or System Design Document.
   - Working under SCRUM master with Agile Method.

3. **Embedded System Developer: SNK Technologies (Freelancer)** (Oct. 2019 to July 2021)
   Job Responsibilities:
   - Design and development of various Embedded Systems.
   - Prototype to Product Design.
   - IoT system architecture.
   - Schematic and Layout designing of specific PCBs including multilayer PCBs.
   - Client Handling and Sync Up.

4. **Research Associate: Marwadi Education Institutions (MEFGI)** (Jan. 2018 to Oct. 2019)
   Job Responsibilities:
   - Develop state of art Center of Excellence Lab.
   - Developing various Embedded Systems for various research paper.
   - Development and Design of Aeromodelling Lab for Drone Technology.
   - Working on Plug and Play kit MYOSA for developing various application.

(Continue)

Skills:

- Embedded systems design, development
- Communication Protocols: I2C, SPI, UART, RS485, RS232, Modbus
- Microcontroller: Atmel, STM32, PIC, Nuvoton, ESP32 & ESP8266
- IoT Protocols: MQTT, HTTP, HTTPS, TCP/IP, UDP
- Microcontroller and Microprocessor based systems
- Wi-Fi, BLE, LoRa, Bluetooth, GSM, GPS
- Embedded C, Embedded C++
- Electronics Lab equipment's
- AWS IoT Platform
- MISCRA C, MISCRA C++, DO-178B and DO-254
- Jira, Bit bucket, Source tree, GitHub, Trello
- Embedded Linux, Multithread System (Beginner Level)
- RTOS (Intermediate Level)
- Python, bash script (Beginner Level)

Products/Projects:

1. **IoT Brewing Machine**: Design entire IoT architecture and develop firmware for the machine with IoT compatibility.

2. **Industrial IoT Gateway**: An industrial grade device, which is capable to control and monitor various industrial machine and/or device and/or meters.

3. **Industrial IoT 4Channel AI/DI Module**: Industrial device, which have 4 Digital Input and/or 4 Analog Input and/or 4 Digital Output with RS485, GSM, USB.

4. **Tower Clock System**: A system, which can easy to use and support multiple clock option with Audio output option.

5. **Cooling System:** Cooling System to cool down the onboard avionics electronics system with various specification and functions.

6. **Battery Test Jig:** User configurable Battery test jig for various testing on battery for wireless product.

7. **Fire Panel:** Fire Panel for Smart Building and Infrastructure, which support different types of fire sensors.

8. **Generic IoT Gateway:** Gateway which support multiple protocol used in fire and safety panel or detection system.

9. **TBEAD:** IoT enabled smart pill dispenser device, which tracks the medication status, as well as provide reminders on time.

Interested:

- Embedded System Development
- IoT
- Embedded System - DSP
- Product Development
- Large and Long Term Project
- Team & Project Leading
- Team & Project Management
- System Architecture Designing