# Riyayat Abbas Abidi Sayyed

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Location: Al Muhairi Tower, Ajman, United Arab Emirate (UAE)

## EXPERIENCE

**Utopiatech**

**Embedded System Engineer | R & D Department | MAR 2022 – AUG 2023**

Vertical: IOT | Technology: MongoDB, ExpressJS, Angular, NodeJS, AWS, C, Python | Region: India

- Designed, developed, tested, and debugged embedded firmware for Utopiatech's core IoT device, leveraging MEAN stack technology for IOT Dashboard Software.
- Get involved in the creation of the IOT Dashboard.
- Track and maintain the Company's hundred IOT devices from the IOT dashboard across the country.
- Improved the IOT device's performance and scalability.
- Improved code quality and minimized vulnerabilities.

**OneIT Tech**

**Embedded Firmware Engineer | JAN 2019 – FEB 2022**

Vertical: IT Services| Technology: MongoDB, ExpressJS, Angular, NodeJS, AWS, C, C++, Python, PHP, MQTT, IOT| Region: US, India

In my previous role, I led the development and maintenance of firmware for a medical device designed to sanitize medical PPE kits, currently undergoing FDA approval. The device utilized a MEAN stack for its software infrastructure. Additionally, I spearheaded the development and prototyping of various products for our clients, with responsibilities including PCB design, firmware writing, and testing, as well as using the MEAN stack for software development.

Some key highlights for this role are as follows.

- Proficient in Web Software Stack: MongoDB, ExpressJS, Angular, NodeJS with Python, and Amazon AWS, contributing to developing MEAN stack applications.
- Backend PHP developer experienced in RESTful API implementation, MySQL/MongoDB database management, performance optimization, and security.
- Develop, debug, and perform unit testing for firmware.
- Design, debug, and test IoT dashboards using MEAN Stack on AWS.
- Capture requirements and specifications, translating them into robust embedded C and C++ code.
- Implement IoT protocols such as MQTT and HTTP to enable device connectivity and data exchange.
- Experienced in networking protocols like WIFI, Bluetooth, etc., and communication standards like UART, SPI, I2C, USB, CAN, etc.
- Utilize project tracking tools like Jira and Asana for project and bug management.
- Work with microcontrollers such as Espressif, Atmega, STM, and PIC.
- Create comprehensive PCB documentation, including schematics and Gerber files.
- Develop PCB layouts based on hardware specifications.
- Create and execute testing plans for both hardware and software.

**AxisSoft Media**

**Embedded Designer | MAR 2018 – JAN 2019**

Vertical: IOT | Technology: PCB Designing, Eagle, C| Region: India

As an Embedded designer in AxisSoft Media, my core responsibility was to design the printed circuit board in Eagle CAD software. Along with that, I was also responsible for writing the testing firmware.

Some key highlights for this role are as follows.

- Create a detailed schematic diagram of the system, including all components, connections, and reference designators.
- Use a modular approach to facilitate code organization and maintenance.
- Write clean, well-documented code following coding standards.
- Develop a comprehensive testing plan covering unit testing and system testing.
- Using Avrdude for programming and debugging Atmega microcontrollers.
- Maintain thorough documentation for both hardware and software.
- Use version control systems like Git to track changes in the software code.

## SKILLS

- **Languages**: NodeJS, Python, Angular, ExpressJS, PHP, C, C++, Bootstrap, HTML, CSS
- **Databases**: MySQL, MongoDB
- **Testing Frameworks**: Cypress
- **Operating Systems & Tooling**: Linux, Docker, Git, BASH, GitHub & Bitbucket

## CERTIFICATIONS



- Microsoft Certified Azure Fundamentals – 2023.
- MongoDB Associate Developer - 2024.

## EDUCATION

2014 – 2017          B.E in Electronic & Telecommunication, Mumbai University