

Joyal Jose Biju

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WORK EXPERIENCE

Z-Crossing Solutions

Oct. 2023 – May, 2025

Firmware Engineer

1 year 7 months

- Worked as firmware engineer responsible for design, coding and testing of firmware drivers.
- Configuring, and integrating various sensors and peripherals.
- Experienced in debugging low level, interrupt routines and peripherals effectively.
- Proficient with usage of various protocols stacks and version control tools
 - I2C, SPI, UART, Ethernet, USB, Modbus
 - C programming, Bare-metal, FreeRTOS
 - Git, SVN, Bitbucket.
- Knowledgeable in embedded development using MCUs from ST, Renesas, Silicon labs, Nordic, ESP.
- Familiar with Code Reviews, documentations and testing.
- Efficient in the use of oscilloscopes and logic analyzers.

PROJECTS

- Wearable health device for heartrate & spo2 measurement
- An Attitude Heading Reference System
- Cathodic protection controller
- Retro gaming console
- Firmware over the air application

EDUCATION

Government Engineering College, Thrissur

Aug. 2019 – July, 2023

B.Tech, Electronics and Communication

- **CGPA: 7.48**
- **Projects:** Smart glass for visually impaired, Automatic dimming of vehicle headlamps, E-BAJA

Christ Nagar Sr, Sec School

Jun. 2017 – Jun, 2019

10+2, Computer Science

SKILLS & INTERESTS

- **Skills:** C Programming, Debugging, Soldering, Logical thinking, Problem Solving, Time Management, Teamwork, Communication
- **Interests:** Bikes, Music, Travelling, Reading, Swimming