

Atul Kapade

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CAREER OBJECTIVE:

An aspiring Electrical Engineer pursue my career in the domain of Embedded system & looking for an opportunity to explore my experience, where it should be a place to enhance me to grow in the technical aspect with challenging day to day tasks.

ACADEMIC DETAILS:

PG Program Course in Embedded Systems, (2022-2023)

S.S.G.B.C.O.E.T Bhusawal, --- BE Electrical Engineering

July 2016 - June 2019 with 7.38 CGPA (64.79 %)

J. T. M. Polytechnic Faizpur, ---Diploma in Electrical Engineering June

2013 - June 2016 with 70.48%

Bharat Vidyalay Nhavi , --- (10th).

June 2010 - June 2011 with 73.00%

TECHNICAL SKILLS AND TOOLS:

- Programming languages: C, Embedded C.
- Testing Software: MODBUS, Docklight, etc.
- Development tools: MCUXpresso IDEs, Arduino IDE, Keil IDE, debuggers, and Proteus.
- Communication protocols: SPI, I2C, UART, MODBUS , RS485, etc.

WORK EXPERIENCE:

- One year (21/06/2019 to 21/06/2020) work experience in Funkskool India Pvt Ltd ,Corlim Goa as a Apprentice.
- Two year (01/08/2020 to 01/08/2022) work experience in Vignesh Polymer Pvt Ltd ,Verna IDC Goa as a Maintenance Engineer.
- Three Month (29/08/2022 to 29/12/2022) work experience in International Automotive Component Ltd (IAC) ,Chakan MIDC area Pune as a Trainee Engineer.
- Now Working at Intelux Electronics Pvt Ltd, Pune as a Embedded System Engineer from Jan.2024 to till.

ROLES AND RESPONSIBILITIES:

- Work on Embedded platforms, including microcontrollers, Sensors, Software Validation.
- Test plan development , Hardware and software integration and testing the product.
- Product Optimization and their test setup.
- Coordinate with customers and field teams for real-world testing and gather feedback to fine-tune the product.
- Resolve issues related to product functionality, production delays, or technical failures during the development process.
- Maintain clear documentation for design and development plan and review, product BOM, testing, and production procedures to facilitate product support, future updates, and compliance.

POSITION:

Embedded System Engineer.

PROJECTS:

Capacitive Fuel Level Sensor (CFLS) Development :

MCUXpresso IDE

- **Designed and developed** a capacitive fuel level sensor for real-time monitoring and accurate measurement of fuel levels in industrial applications.
- **Developed firmware** for interfacing the capacitive sensor with microcontrollers, ensuring stable and precise signal processing for accurate fuel level readings.
- **Integrated capacitive sensing technology** with analog-to-digital conversion circuits to provide high-resolution measurements of fuel levels, enhancing the sensor's reliability and performance.
- **Testing and Validation** of sensor performance, including long-term durability, response time, and resistance to fuel impurities.
- **Documented design processes**, test results, and system specifications for product release and future product improvements.

Three Phase Energy Meter :

- Creating the test Cases for product Validation.
- Test the product as R&D Level and resolve the hardware and software problem co-ordinate with team
- Assembly the SMD and discrete Component on PCB
- Making the test jig for testing purpose

Measuring the distance of an object using an ultrasonic sensor :

Arduino IDE

- Measuring the distance in terms of inches of an object using an Ultrasonic sensor.
- The sensor data is smoothened by using the moving average filter technique to eliminate the high frequency variation from the sensor data.
- Measuring the distance travelled by the wave to the object and gets bounced back from the object to the sensor.

CO-CURRICULAR ACTIVITIES:

- Course Completion Certificate of Embedded C Essential
- Course Completion Certificate of AVR Bare metal programing
- Course Completion Certificate of Fundamental of Embedded System
- Knowledge of Electrical and Electronics

LANGUAGES KNOWN:

1. English (Full Professional Proficiency)
2. Hindi (Professional Working Proficiency)
3. Marathi (Professional Working Proficiency)