

Yogesh kareliya

Embedded Software Developer



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Details

Current Address

DLF Phase 3, U Block
Gurugram, Delhi NCR

Date of birth

24/01/1998

Nationality

Indian

Skills

C/C++, OOPS,

Data Structures

Embedded C

MCU

AVR, ARM
8051

Multimedia

Camera (Thermal,
CMOS)

Protocols

UART, I2C, SPI, CAN
ADC, DAC, TIMER, PWM

Key Software & Tools

- Visual Studio, GitHub, JIRA
- SDOM, RQ1, ECU WORKS,
- DOOR, ASCET, TPT
- STM32 CUBE IDE, keil,
- Arduino IDE, Docklight

Profile Summary

3+ year of Experience as an Embedded Engineer.

Experienced Embedded Engineer with a strong background in developing and optimizing embedded firmware code based on ARM Cortex - M, AVR and 8051.

Proficient in integrating sensors. advocating best practices in software development.

Core competencies include Embedded C, C++, ARM and AVR micro controllers, OOPS, Data Structures. Creative problem-solver with knack for developing innovative embedded systems. Skilled in programming, debugging, and collaborating with cross-functional teams to deliver reliable solutions. Excellent communicator who embraces challenges and continuously seeks to learn and improve.

Employment History

Embedded Engineer (R&D), MKU LTD

April 2023— Present, Gurugram, Haryana

Project 1 Advanced Thermal weapon sight (STM32)

- Develop Firmware For **Battery Voltage Management** with STM32.
- Developed Firmware for **GUN Short Counter** with Accelerometer.
- Developed Firmware **Digital Magnetic compass** with UART.
- Located and fixed bugs within embedded firmware to quickly remedy performance issues.
- design the test cases.
- Participated in code reviews, providing constructive feedback and advocating best practices in software

Project 2 - Thermal weapon sight (MCU - 8051 AND STM32)

- Interfaced Thermal Camera with UART.
- Interfaced Micro OLED Display with I2C.
- Interfaced EEPROM.
- Developed HMI with Button.
- Developed firmware for Zeroing.
- Located and fixed bugs within embedded firmware to quickly remedy performance issues.
- design the test cases.
- Participated in code reviews, providing constructive feedback and advocating best practices in software.

Embedded Software Developer

CYIENT Pvt Ltd - Client To work onsite with Robert BOSCH
Global Software Technologies

March 2022 — March 2023 , Coimbatore, Tamilnadu

Projects - fuelsupply system diesel,
Injection Hydraulics (Engine Control ECU),
Injection valve , GassplyEsvaive

- Design Implementation and Software development in Injection Hydraulics Function (Diesel Engine – 4 to 8 Cylinders) for both passenger car and CV.
- Involved in product development life cycle i.e. Requirements, Design, Implementation, Testing and Debugging for several Injection Hydraulics functions.
- Experienced in creating and executing unit test cases, validating software units through SIL simulations to ensure functionality and achieve code coverage goals.
- Conduct component-level testing using HIL setups to evaluate software performance and ensure adherence to industry standards.
- Modified existing code to replace problematic functions with optimized content and handled Memory leaks and memory fragmentation.
- Analyzing customer requirements through DOORS and handling issues by RQone Request.
- Worked on Developing the requirement in L4 Level, write code in MISRA 2012 Standards, validate features in SIL and HIL.
- Updated codes on SDOM version control and experience in error handling during CI/CD during Integration with other Modules.
- Performed requirement review. design review and code review.
- Performed unit testing and release of the sw according to sw release process.

Languages

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English

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Hindi

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Gujarati

Training : Advance Embedded System Course at Vector India Private Limited (Bangalore).

Education

Gujarat Technological University - Ahmedabad

2017 — 2020, Gujrat (Ahembdabad)

B. E Electrical

CGPA : 7.01

Gujarat Technological University - Ahmedabad

2014 — 2017, Gujrat (Ahembdabad)

Diploma in Electrical Engineering

CGPA : 8.87