

RESUME

Anil Kumar

Flat no 21, B2, Mahesh Paradise

Aundh, Pune, Maharashtra- 411 007

Contact no: - 9999461353

Email id: - anil82558@gmail.com



Professional Summary: - Automotive Embedded BSW Developer with 3 years of Experience in Software Development, Testing, and detailed Design of various Embedded Systems. Proficient in C/C++ programming, real-time operating systems (RTOS), and various communication protocols. Demonstrated ability to solve complex problems and ensure compliance with industry standards. Seeking a dynamic and challenging role in embedded software development to utilize my skills and contribute to organizational growth.

Key Skills:

- Experience in software development in Embedded C, compliance to MISRA standards, Software Integration and Software detailed design
- Familiar with the Software Development Life Cycle I.e., V-Cycle (Requirement Gathering, Requirement Analysis, Design and User Documentation)
- Knowledge of microcontrollers(Infineon Tc3xx,STM32,Tm4c123GXL,Arduino, Etc.)
- Automotive Communication Protocols (UART, I2C, SPI, CAN, UDS, etc.)
- Low level device driver development for MCU peripherals such as GPIOs, Timers, ADCs, DMA controllers, PWM (Motor controller), FLS drivers etc.
- Familiar with Functional Safety at software level (ISO 26262- Part6) guidelines, ISO-14229 for ECU diagnostics services.

Work Experience: -

1. Company Name -: Dana India Technical Center

Designation -: Project Engineer- BSW

Duration -: Feb 2022 to Present

Project -: Transmission Control Unit (TCU), Motor Control Unit (MCU)

- Understanding of build environment of embedded systems project, make files, linker files, compilation, generated essential files, including S37, ELF, and A2L etc., flashing and debugging of code on Lauterbach (Trace32) debugger.
- Code Implementation in embedded C in adherence with ISO26262 and MISRA guidelines, Code Industrialization, static code analysis and fixes using Polyspace.
- Responsible for SW feature development such as UART, Wheel Speed Sensor, PMIC and working on the left side of the V-cycle in multiple software levels (SWE2, SWE3, SWE4).
- Implemented core split and code split for functional safety ISO26262. Wherein the QM and ASIL were handled in different cores.
- Understanding of different UDS Services such as Read data by Identifier (\$22), Write data by Identifier (\$2E) etc.
- Analyze System requirements and SW requirements, Design SW Module (Low level detailed design)

in Enterprise Architect, Write SW Module requirements and establish traceability in Polarion.

- Code coverage analysis for ASIL C and MC\DC coverage and test report generation

Educational qualification: -

Sr. No	Examination (Branch)	Institution/ University	Year of Passing
1.	B. TECH (Electronics and Communication)	Delhi Technical Campus, Guru Gobind Singh Indraprastha University	2020
2.	12 th - CBSE Board	Rawal Convent School, Ballabhghar(Faridabad)	2015
3.	10 th - CBSE Board	Rawal Convent school,Ballabhghar(Faridabad)	2013

Software Tools:

- Requirement Management: - **Polarion**
- Version Management: - **Git/SVN**
- SW debugging: - **Trace32-Lauterbatch**
- UML and SW design: - **Enterprise Architect, System composer**
- Calibration and Testing Tool: **OPENECU Calibrator,**
- Model based development: - **MATLAB/Simulink**
- Compilers: - **GNU-GCC (MINGW-64), HighTec**
- MISRA coding guidelines: - **Polyspace**
- IDE Code construction: - **Eclipse, MS Visual studio , STM32cube IDE , HighTec IDE**
- Module/Unit testing: - **Vectorcast**
- Project Management tools: **JIRA**

Courses and certifications:

Embedded System Course From Vector India Private Ltd,Banglore(July 2021-Jan 2022)

AUTOSAR course from Vector india Private Ltd, Bangalore.

Certification AUTOSAR Training provided by Dana

Certified in C Programming online course on Aug 4, 2020 From Udemy

PERSONAL DETAILS: -

- Date of birth : 12/02/1998
- Gender : MALE
- Nationality : INDIAN
- Language Known : ENGLISH, HINDI

DECLARATION:-

I hereby certify that the above-given information is true and any discrepancies can lead to my disqualification.