# Name: Anusha Budampalli

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| OBJECTIVE |

Looking for a role that allows me to combine my passion for embedded systems with my proficiency in software development and Testing, seeking for an opportunity to join in a highly motivated team of engineers as an Embedded Engineer where I can make significant contributions to the development and Testing process.

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| **SUMMARY** |

* 4 years of experience in Embedded Automotive Domain.
* Worked on Software Development and Testing activities in application level.
* Involved in high level and low-level requirements analysing and code reviews.
* Involved in new feature implementations and enhancements using C and Embedded C.
* Knowledge on C++ Programming Language.
* Hands on Experience in debugging and bug fixing on existing code.
* Involved in below testing levels of Software life cycle
  + Unit Testing
  + MC/DC coverage
  + Functional Testing
  + MISRA C/C++ violation fixings.
* Experience in static analysis using MISRA C Guidelines.
* Involved in Root Cause Analysis and reviewed for correctness and completeness.
* Experience in 8/32-bit Microcontrollers like Renesas RH850, 8051
* Experience in writing Test Cases and Test Plan.
* Experience in version control tool GIT.
* Followed Agile Methodology.
* Experience in automotive communication protocols like SPI, CAN, I2C, UART.
* Hands on experience in integration and testing.
* Involved in the preparation of the technical document like functional test plan and functional test results.
* Good team player with quick learner and having interpersonal skills.

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| **Professional Experience** |

* Worked as Senior Engineer with **L&T technology, Bangalore** fromJune 2022 to Jan 2025.
* Worked as Software Engineer with **Aria Aerotech** **Pvt ltd, Bangalore** from Jan 2021 to 20 may 2022.

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| **Educational Experience** |

* **B. Tech – Computer science & Engineering –** JNTU Kakinada, Andhra Pradesh-2019.
* **Intermediate –** Sri Chaitanya juniorCollege, Guntur, Andhra Pradesh-2015.
* **SSC –** Z.P. High School, Guntur, Andhra Pradesh -2013.

**Technical Skill Sets:**

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| **Name** | **: Used for** |
| **Programming Languages** | : C, Embedded C, C++ |
| **Developing Tools** | : Eclipse, Visual Studio, Ecuworx. |
| **Testing Tools** | : Vector cast, CANalyzer 10.0, ODI Simulation, QAC, INCA, UDE. |
| **Debugging Tools** | : Renesas E1 Debugger, GHS |
| **Requirement Tools** | : DOORS-NG, RQ1 |
| **Coding Standards** | : MISRA C/C++ |
| **Defect Tracking and Configuration Management tool** | : GIT, SDOM, Jira, Bit Bucket |
| **Communication Protocols** | : I2c, CAN, SPI |

**Project Experience:**

1. **Project Name: Vehicle Dash Board\_UI Development**

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| **Client** | : Marelli, |
| **Role** | : Developer |
| **Programming Languages** | : C and Embedded C |
| **Testing Tools** | : IBM RTC, Visual Studio, Renesas E1 Debugger, Jira, Green Hills Tool, Doors |

**Project Summary**: This Project is to develop panel board in car, which provides essential information to driver about vehicle operations. Developing HMI level features by developing Screens and display alerts such as Lamp Fail, Door Open, Ice Warning etc, and mini popups -FM, Phone Numbers and in settings- wiper settings, languages settings, trip settings.

# Involved in Activities:

# Analysis of requirement specifications.

# Do the Design level Enhancements for HMI Level.

# Implement new feature implementation and Enhancements using C and Embedded C.

# Perform Bug fixing and debugging on existing code.

# Do Development level functional testing.

# Perform Unit Testing on existing code.

1. **Project Name: Instrumentation Cluster Development -HMI**

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| **Client** | : Nissan |
| **Role** | : Developer |
| **Programming Language** | : C and Embedded C |
| **Testing Tools** | : Eclipse, Vector canalyzer10.0, DOORS\_NG, Renesas E1 Debugger, GHS |

**Project Summary:** This Project is to develop panel in a car, that provides the essential information about vehicle’s operation, and consists of Warning Screens, Info Screens, Settings screens, warning lights etc. Majorly developing in UI level feature implementations and testing.

# Involved in Activities:

# Analysis of requirement specifications.

# Do the Design level Enhancements.

# Implement new feature implementations and Enhancements using C and Embedded C.

# Perform Bug fixing and debugging on existing code.

# Do Development level functional testing.

# Fix MISRA C/C++ Violations on existing code.

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| 1. **Project Name: SWPD For Suzuki Gasoline Project from Customer Engineering Team** |

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| **Client** | : Robert Bosch |
| **Role** | : SWPD (software project developer) |
| **Programming Language** | : C and Embedded C |
| **Testing Tools** | : ECUworx, INCA, UDE, SDOM, RQ1, Canalayser, ASCET, NETImpress tool. |

**Project Summary:** Themain goal of the project is to analyse the requirements of the customer and accordingly creating the model in ASCET and generate the code. After generating the code performing the development, verification and validation.

# Involved in Activities:

* Involved in INTEGRATION activity of Base component related to MG1 Software.
* Integration of software packages to complete program versions (with the support of the Package Responsible for initial integrations)
* Implementation of any necessary adaptations to SW sharing interfaces and validation  
  of those adaptations
* Creation and delivery to internal customers of test, development, and series version and creation of software containers for the plant and delivery to the calibration
* Involved in SW release activity.
* Involved in OS proc scheduling as per requirement.
* Performing SWPD activity like BFT.
* Uploading the artifacts in SDOM.
* Supported on testing and involved in LAB support.
* Creation of the program version documentation
* Analysis of complaints about the software during development and series production
* Execute and document the SW- and System Integration tests and verify the result.
* Followed V-Model.
* Working on ASCET design.
* Working on solving errors.

**4.Project Name: MSIL\_CNG Instrumentation Cluster**

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| **Client** | : Hyundai |
| **Role** | : Developer |
| **Programming Language** | : C and Embedded C |
| **Testing Used** | : Eclipse, Vector canalyzer10.0, DOORS\_NG, Renesas E1 Debugger, GHS |

**Project Summary:**

This project is to develop application-level features for monochrome instrumentation cluster, in this majorly developing screens for HMI level software and implementing enhancements using C and Embedded C, testing like unit testing and Misra Violations

# Involved in Activities:

* Involved in analysis of requirement specifications.
* Develop UI Screens for new features and enhancements.
* Implement new feature implementations and enhancements using C and Embedded C.
* Perform bug fixing and debugging.
* Perform Unit Testing and functional testing on existing code.
* Fix MISRA C Violation on written code.

**Déclaration :**

I hereby declare that all the above particulars are true and complete to the best of my knowledge and belief.

Date: [Anusha. B]

Place: