

CV

Hari Krishna Muthyam

Software Developer



Profile

I am a software engineer with around 3 years of experience in automotive domain, embedded software development and testing. My key skills are Embedded C programming and Linux device driver. I have experience in development and integration of software components (SWC's) on Android and Linux platforms, Vehicle interface communication. I also have exposure on ADAS computing Platform. I have working knowledge on various communication protocols I2C, SPI, UART, CAN, USB, MIPI protocol, and worked with various cross functional teams located in China and India.



I would like to continue working in camera modules and enhance my skills to contribute to the technology advancements.

In my free time, I like to write stories and play Cricket.



ToolBox

Primary Skills

Embedded C, System level programming, Linux device driver development.

Secondary Skills

Gstreamer and openCV, 16-and 32-bit microcontrollers, Andorid HAL and JNI development

Languages

English (fluent in spoken and written)



Work Experience

2022.12 - Till Date

Embedded Software Engineer, Yana Mobility, Hyderabad, India

Project: ADAS Computing Platform (ACP)

I am currently working on camera linux driver development and SPI protocol driver. I am responsible for model/code development, testing for multi camera, and tracking vehicle speed. My

responsibility includes software development, testing ,validation, code reviews and delivery.

Programming languages and tools: Embedded C, SPI protocol driver, chromatix 7 tool

Project: VIC CLUSTER

I worked on application software development for CAN and USB drivers on IMX1176 board. I am responsible for model/code development, HMI display integration, tracking vehicle speed on display . My responsibility includes software development, testing , validation, code reviews and delivery.

Programming languages and tools: Embedded C, IAR Embedded Workbench 9.4.0, Embedded wizard

Project: ANDORID SMART CLUSTER

My responsibilities include SPI driver development, integration and testing for the vehicle speed on display. I was involved in Touch and display driver development for Android board. I was also responsible for tracking vehicle speed and display component development.

Programming languages and tools: Embedded C, Linux device driver

Project: AUDIO BOX

My responsibilities include MCBSP character driver development, integration and testing Echo (audio frequency waveforms). I was also responsible for generating and verify waveforms.

Programming languages and tools: Embedded C, Linux device driver

Project: TRAINER BIKE

My responsibilities include RS485 protocol driver development, integration and testing communication multiple peripherals. Developed control algorithm for stepper and DC motor based Gyro meter data. I was also involved in UART, SPI, ADC driver development for ATSAMV71 controller platform.

Programming languages and tools: Embedded C, IAR Embedded Workbench

Project: BSOC INDICATION

My responsibilities include ECU level driver development, integration and testing RGB-LED and on chip ADC. I was also

responsible to develop an application to glow LED depending on Battery output.

Programming languages and tools: Embedded C, IAR Embedded Workbench



Education

2015.06 - 2013.07

Master of Technology in Embedded System Design from Jawaharlal Nehru Technology University, Hyderabad, India

2011.04 - 2007.07

Bachelor of Technology in Electronics and Communication Engineering from Jawaharlal Nehru Technology University, Hyderabad, India



Other

Citizenship

Indian

Driving Licence

Indian car license

Date of Birth and place

20th May 1990, Hyderabad, Telangana, India