

Durga Venkata Bhanu

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Objective

I am looking for a challenging career opportunity in Embedded Systems. I intend to be a part of an organization where I can constantly learn and develop my technical skills and make best use of it for the growth of the organization and self. I look forward to establish myself by adapting to new technologies as well.

Professional Summary

- **3.7+** years of experience.
- Proficient in **C, Embedded C**.
- Proficient and Skilled on microcontroller ARM Cortex M0(LPC11C24)
- Good Understanding and working experience in **UART, I2C, SPI, MIL-1553** protocols.
- Good Understanding and working experience in **Wi-Fi, Bluetooth and LoRa** Modules.
- Good Understanding and working experience in **SDK, Keil Simulator Microsoft Visual Studio**, and **Arduino** IDE's.
- Having Good knowledge on **Under-standing and Beyond Comapre** code analyzer's .
- Having basic knowledge on Real Time operating systems.
- **Effective team player** with exceptional planning and execution skills coupled with a systematic approach and quick adaptability.
- Worked on source level debugging using Target simulator and Debugger.

Academic Education

- B.Tech (ECE) in May-2017 with an aggregate of 70%
- Diploma in May-2014 with an aggregate of 73%
- S.S.C in May-2011 with an aggregate of 76%

Technical Skills

- Operating Systems : Linux and Windows
- Programming Languages : C, Embedded C.
- DevTools : Microsoft Visual Studio, Keil, XILINX SDK and , Arduino.
- Code Analysis tools : Understanding Tool, Beyond Compare.

Professional Experience

- Designation : Embedded Software Engineer.
- Company : Research Centre Imarat
- Time Period : July 2021- May 2024.
- Designation : Senior Embedded Software Engineer.
- Company : Kalyani Strategic Systems Limited(From Tridat Technologies)
- Time Period : June 2024 – January 2025.

Projects

Project#1

- Title : **Development of ON BOARD Mission Software**
- Team Size : 5
- Environment : Embedded C, RTOS

Worked in development of driver software using **Real-Time operating systems** for various peripheral device. The software establishes the reliable communication in real time among different sub- systems using RS-422 and 1553B communication channels. (Confidential work, related to Indian Aerospace Missiles).

Role: Software Developer

Responsibilities:

- Interacting with the clients for gathering the Business Requirements and involving in the preparation of the Software Requirements Specification
- Involved in analysis, technical design and development of application
- Technical Assistance to the Team members. Responsible for setting up different environments
- Responsible for Module Integration and Development
- Involved in Code Reviews and Performance Tuning of the application

Project#2

Title : **Development of Launch Controller Software**
Team Size : 3
Environment : Embedded C, Qt creator

Launch Controller Software is used to check sequence of operations for **ON BOARD COMPUTER (PPC7410)** before going to launch. Basically, It is used to test the **Onboard Computer Software**. Apart from I Developed Linux Driver for **RS422 protocol based on PCI Card** and establishes communication with the Application stack to perform Checkout and Auto launch Activities. We developed GUI to display data regarding critical parameters using Qt Creator on Linux platform.

Project#3

Title : **Bus Monitor Software for MIL-STD-1553**
Team Size : 2
Environment : Embedded C, Qt creator

The Decode Software plays a key role in development of Embedded Software. In this project, we establish Decode Software using 1553 communication protocol to verify whether data is corrupted or not as well as timing requirement based on Interface control document (ICD). Data will be generated in the form of Engineering Values and convert them into Scientific values, compare with Non-real time data and Validated.

Project#4

Title : **Target Acquisition with Unwired Simulator**
Team Size : 4
Environment : Embedded C, Arduino Uno, GSM, GPS, Wifi, Bluetooth, Lora

Worked in Development of software using Arduino Uno for various modules like bluetooth, wifi, GSM, GPS. This System is used to detect the Infrared signals/ Radar data from the drones, Aircrafts and helicopters by using sensing network like photo diodes and photo transistors. Transmitting the received and identified data through wireless communication to the military applications by using LoRa, Wifi, Bluetooth and GSM communication.

PERSONAL PROFILE :

Name : C.Durga Venkata Bhanu
Husband's Name : C.Sridhar
Date of Birth : 6th July 1997
Gender : Female
Marital Status : Married
Nationality : Indian
Mobile No : 8801407828
Linguistic fluency : English Telugu and Hindi

(C.D.V.BHANU)