

NARASAPPAGARI RAVI KUMAR

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Total Exp : 2.5+

Career Objective

To obtain a responsible and challenging position in Embedded systems where my resourceful academic skills will add value to the organizational operations and improve my skills at the same time.

Executive Summary:

- Having 2.5+ years of work experience in Embedded development using C technologies And Testing.
- Having work experience on TMS570LS3137ZWT controller I worked on UART , CAN, SPI, I2C, PWM , GPIOs, RJ-45 Ethernet using UDP protocol, Timers using tools Code composers studio and Halogen.
- Having work experience on ZYNQ ZC702 processor I worked on UART ,CAN, SPI, I2c, GPIOs, RJ-45 Ethernet using UDP protocol, Timers ,Mild-Std-1553 in sdk tool.
I know PS Verilog code using tools VIVADO 2019.1
- Having work experience on STM32F401RBT6 Controller I worked on UART, LED's, Lcd ,ESP32 wifi module , buzzer,input switch's using tools Keil V5, stm32cubemax
- Possess extensive experience of writing C programs and have a good understanding of data structures
- Hands on experience in Developing UDP protocols.
- Good Debugging skill is in Using GDB.
- Experience on debugging tools like KDB, KGDB.
- Ability to work in a team, possesses good problem-solving approach, and have exceptional organizational and communication skills.
- Good understanding over System Development life cycle, Testing Life Cycle and Testing Techniques.

Technical Skills:

- ❖ **Programming Language:** C ,Data structures ,Embedded C, basic Linux commands .
- ❖ **Compilers / IDE / Debuggers:** GDB,
- ❖ **Protocols:** UART, I2C, SPI, CAN, RJ-45 Ethernet UDP ,
Mild-Std-1553, Rs-232 , Rs-422 .
- ❖ **Processor:** ZYNQ_ZC702 and ZCU102, ZCU104.PS Verilog code
- ❖ **Microcontroller:** Good knowledge of TMS570LS3137ZWT, TMS320F28379D,
STM32F401RBT6 Microcontrollers ,ESP32 wifi module
- ❖ **Operating Tools :** VIVADO_2019.1 in SDK , CODE COMPOSERS STUDIO 12.1, KEIL5.6 ,stm32cubemax ,Teraterm, Dock light .

Experience:

Apollo micros systems Pvt Ltd, Hyderabad from November 2022 to till now working .

Technical Course:

Completed and Certified Embedded system training in Kernel masters institute in Hyderabad

Project Details:

Universal Simulator(USM)

Role : Software developer Engineer.

Platform : Windows

Configuration Tools : VIVADO_2019.1 ,SDK

Description:

- The Host PC communicates to I/O card via Ethernet in request/response based communication. The Host PC acts as a master and I/O card acts as slave. The Host PC uses I/O card for communication to external world.
- Following points are specification I/O card 1553 capabilities:
- The host PC first transmits configure command through Ethernet before sending any other command. This is essentially first command as without this command the communication to I/O card is not defined.
- All the commands will be sent to I/O card from Host PC and all the responses will be sent to Host PC from I/O card.

Roles and Responsibilities:

- Fulfilled in implementing the new feature and write the C code in SDK.
- Write a code and Testing on peripherals or device & Integration testing.
- Bugs fixing

Project Details:

DSP ASTRA VARSTION_2.0 (DSP_2.0)

Role : Software developer Engineer.

Platform : Windows

Configuration Tools : VIVADO_2019.1 ,SDK

Description:

Capture analog waveforms or sounds or noise signals converted into digital processing signals. Here, the DSP card communicates with the GUI (graphical user interface), used for Ethernet and serial communication protocols.

Roles and Responsibilities:

- Fulfilled in implementing the new feature and write the C code in SDK.
- Write a code and testing on peripherals or device & Integration testing.
- Bugs fix fixing.

Education Details:

	10th (2008)	ITI (2011)	Diploma (2014)	B tech (2019)
Board	State Board of secondary education	GAP Department of employment and trying	State Board of technical education and training	JNTU- Anantapur.
Percentage	60.5	76.90	73.20	69.15

Declaration:

I hereby declare that above furnished information is authentic to the best of my knowledge.

Date:**Place:****(Ravi Kumar N)**