

SHRAVANI CHAMALA

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Career objective:

I aim to be an asset to your company to excel with my ability to learn quickly, apply what I learn efficiently and love for challenging work. I am looking for an opportunity to be amongst the best so that I can work harder to reach my altitude in the field of Embedded Software engineering.

Professional Summary:

- Pursuing PG diploma in Embedded systems design at Kernel Masters
- Practical knowledge of C and Embedded C
- Knowledge of reading data sheets.
- Knowledge of GDB and Strace.
- GCC Cross Compiler, Vim Editor
- version control tool Git.
- Hands-on experience on communication protocols such as UART, I2c, SPI protocols
- Experience on serial wire ST link V2 debugger

Education:

Course	Institute	Year of passing	Aggregate
Btech	Sri Indu college of engineering and Technology	2018	68%
Inter	KLN Junior College	2014	85.4%
SSC	Kakatiya Concept School	2012	8.8 GPA

Skill set:

Tools	: Keil IDE, STMCUBEMX
Languages	: C
Debugging Techniques	: gdb, valgrind
Packages	: MS-Office
Operating System	: Windows Family, Linux
SOC	: STM32F401RBT6.

Work Experience:

KERNEL MASTERS(*current*)

#Project1 : IOT Smart weather monitoring system

Hardware Platform : STM32F401 RBT6

Development Tools : Keil IDE, Dock light, STM32CubeMX.

Platform : Windows

Description:

Collected the LM35 sensor and RTC time stamp readings by interfacing them to STM32 microprocessor using ADC and I2C modules. The temperature readings are sent to Kernel Masters cloud for every 5 seconds using Wi-Fi module ESP8266 by interfacing it with UART protocol. The Wi-Fi connectivity is checked for every 1 second delay and displays ERROR (red LED) or OK (green LED) message along with temperature and time stamp readings. In case of ERROR, temperature and timestamp stored in EEPROM.

#Project2 : Gate Monitoring System

Hardware Platform : STM32F401RBT6

Development Tools : Keil IDE, Dock light, STM32CubeMX

Platform : Windows

Description: This project involves developing a smart gate monitoring system using the STM32F401RBT6 microcontroller. It includes hardware analysis, firmware development, and sensor integration to detect the gate's status (open/close) using IR beam and reed sensors. The JQ6500 16P audio module provides real-time audio feedback for different gate conditions. The system is tested and debugged to ensure seamless hardware and firmware integration for reliable operation.

COGNIZANT (March 07, 2019 —May 21, 2024) Cognizant Technology and Services

#Project3:

Client : JIO

Role : Tech Lead

Description: This goal of the project is to ensure the firmware used in JIO broadband routers are properly tested and enhanced to ensure seamless network connectivity for jio broadband home users. My major contributions in the project are

- Debugging the real-time customer issues
- Conducting RCAs and providing test builds to fix the customer issues.
- Worked on fixing issues related to DHCP, Wifi, TCP, UDP, wireless extenders

#Project:4

Client : Warner Bros

Project : Warner Bros

Role : Systems Engineer

Description:

In my role within Production Support, I utilized the opportunity to gain a comprehensive understanding of the IT vertical and the complete Software Development Life Cycle (SDLC) workflow. I developed hands-on knowledge of real-time database servers, reporting servers, and explored key aspects of production environments, including the use of ServiceNow for incident management and server operations.

Academic Projects:

Organization : BSNL (Bharat Sanchar Nigam Limited)

Title : Migration of corporate sector from IPv4 to IPv6

Description:

As the demand for the private networks by the corporate sector is increasing day by day the traditional IPv4 method of address allocation fails and there comes IPv6 to provide a greater number of addresses for the next coming generations. The main objective of this project is to migrate the network from IPv4 to IPv6 using the method of tunneling.

Industrial oriented mini project:

Organization : BHEL (Bharath Heavy Electricals Limited)

Title : Programmable logic circuit with computer Numeric control machine

Description:

This project is all about how we make circuits automated by writing code in computer-based machines, here the program is written in CNC machine dumped to control unit of plc. This project's main aim is to automate logical circuits in large industries.

Declaration:

I hereby declare that the above-mentioned information is correct up to my knowledge and I bear the responsibility for the correctness of the above-mentioned particulars.