

SATHVIK VEERABATHINA

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Technical Skills

Languages and DataBases : C,C++, QT, Networking, Data Structures, C sharp, Embedded C

Visualization Tools : Visual Studio, OpenGL, QT

Other Skills: Advanced Excel, Business Analysis, Data Analysis, Customer Acquisition

Experience/Projects

Teclever Solutions Pvt.Ltd

March 2024-

Present

Member Engineer

Bengaluru,

India

- Working for the Project of **Cockpit Interfacing System** and the client is **MCSRDC (HAL)**. It is the fixed base flight module system (FBFMS) along with the Simulation Host Computer of **HTT-40**.
 - The **FBFMS** cockpit shall be equipped with displays, instruments, levers and handles to simulate the functionalities of actual equipment of the Aircraft Cockpit Interfacing System.
 - It is the interface between various Cockpit equipment and the Simulation Host Computer of HTT-40. It shall acquire the digital and analog signals from the Cockpit and provide the same to the simulation host computer and also generate digital and analog signals.
 - It generates signals for driving the Cockpit lamps/indicators and instruments based on the information received from simulation host computer.
 - Developed the code for the Modules for Communication using **C/C++**, Involved in writing and debugging code and working with Communication modules and hardware, Integration of software with hardware components and perform testing to system reliability
 - Used some Protocols for communication like **UDP** to get the information from modules to the cockpit and use Some part of **PLC Programming** for the modules communication.
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- Working for the project of **Wi-fi Routing Configuration** and the client is **BSNL (Bharat Sanchar Nigam Limited)**. It is the Configuration of the Wi-fi Modules using the IP address.
 - By using the **Networking** and **Router Interfacing** we got IP address for the modules based on the configuration we have to interface the modules and provide the broadband for devices.
 - As a part of my role in configuring Wi-fi routing service, I was responsible for setting up and optimizing routers to ensure stable and high-speed internet connections.
 - This involved configuring essential settings such as IP address allocation, Wi-fi security and wireless channel management. I also addressed and resolved common connectivity issues, such as weak signals and network interruptions by fine-tuning router placement.
 - Additionally, I managed advanced configurations like **port forwarding**, **DNS Settings** and **firewall adjustments** to improve performance and enhance security.
 - Regular maintenance tasks, including firmware updates and network optimizations, were also part of my responsibilities to maintain a reliable and secure experience for users.
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Personal Projects/Awards & Achievements

Digital Weighing Machine Using Load Sensor / C,C++, Embedded C

Oct 2023-

Jan 2024

- By using the Arduino Nano microcontroller and HX711 Load cell Amplifier Module and a 16*2 LCD and we developed the code for the above project.
- By using some standard libraries called LiquidCrystal_I2C Library along with C/C++ developed the code and with hardware developed the Structure based on Circuit diagram.
- Certified and Completed the course of LDRA testing tool conducted on 03-05 December based on C,C++, QT and Embedded C development.

Education

Gudlavalleru Engineering College of Jawaharlal Nehru Technological University
2023

Aug 2019 – May

Bachelor of Technology in Electronics and Communication
Andhra Pradesh.

Gudlavalleru,