

NIKHIL DEVIDAS PATIL

Nagarbhavi Circle, Bangalore Karnataka-560072.

Email: patilnihil@gmail.com

Contact: +91-8793615159

Education

University of Pune , MH India	May'16
Bachelor of Engineering in Information Technology	Overall aggrt-57%
MSBTE University , MH India	May'13
Diploma in Computer Engineering	Overall aggrt-64%
MH State Board , Pune Division MH India	May'08
SSC	Passed with-75%

SUMMARY

- Currently working in Karmic Embedded Pvt. Ltd ,Bangalore.
- Completed post graduate diploma in Embedded System Design.
- Comfortable with respect to programming in C.
- Able to implement and use Data structures using C.
- Having good understanding of gcc compiler.
- Basic knowledge of Linux Operating System Internals.
- Inter-Process Communication: Pipes, FIFO, Message Queues, Shared Memory.
- Synchronization of unrelated processes using Semaphore and Mutex.
- Understanding of concept of Threads.
- Knowledge of Arm7 development kit board (Lpc2129).
- Comfortable with respect to programming in python.
- Understanding of serial communication with bluetooth module.
- Basic Understanding of protocols like UART,SPI,I2C,CAN.
- Have good understanding of Project development tools like KIEL,FLASH MAGIC.
- Ready to learn new technologies and methodologies.

TECHNICAL SKILLS

- **Programming Languages:** C,Python.
- **Operating System :** Fedora, Ubuntu, Windows.
- **Debugger :** GDB, PDB.
- **Software and Tools :** KIEL,FLASH MAGIC,Eclipse IDE.
- **Compiler :** GCC

PROJECT EXPERIENCE

1. Employee Management System

Role: Developer.

Description: The project aim is to manage the employee data. This system was created to record all the data of the employee. We can add, edit and delete employee data in this system.

Program has been implemented using C language and data structure concepts.

2. Client-Server communication using Sockets and threads

Role: Developer.

Description: Client-server architecture project using Threads and Sockets has been designed in which multiple clients can access the server in order to retrieve or send the data. Sockets are used to establish the connection between the clients and the server.

3. Client Server communication using Inter Process Communication and threads

Role: Developer.

Description: It aims at implementing a Server Program where some clients (requesting clients) would send a request to the server and the Server would further find the appropriate client (processing client) to process the request. The new client (processing client) should then send the request back to the server, which then sends it forward to the requesting client. Requesting client sends a request to the server using PIPES, FIFO, MESSAGE QUEUES or SHARED MEMORY. In this project semaphores and mutex techniques were used for synchronization between clients.

4. "TwSegNER"-Tweet Segmentation with Named Entity Recognition

Role: Designing and Information Gathering.

Description: In this project, the best semantic meaning of dynamic tweets is determined by splitting tweets into meaningful segments. The semantic meaning or context information is well preserved and easily extracted by the downstream applications.

5. Renaming bluetooth Device using pyserial library of python

Role: Developer.

Client-NGX Technologies, Bangalore

Description: In this project, python programming was used to automate the task of verifying, validating and renaming names for bluetooth devices (with status) to ease the work of production department. CSV files were used to keep track record for blue-tooth devices sold as well.

6. Compatibility for old retail devices

Role: Developer.

Client-NGX Technologies, Bangalore.

Description: In this project, aim was to make the sd card of new as well as old retail devices compatible to function on the older and the newer devices. This was implemented using python script to minimize the work load on the production team.

I hereby certify that all the information provided above is true to the best of my knowledge.

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