

SANTOSH PATIL



My Contact

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Profile Summary

Over one year of hands-on experience in ADAS development at KPIT. Proficient in C programming, C ++ Python and DSA. Seeking to secure a challenging opportunity as a C/C++ developer.

Education Details

- B.E - Electronics and Communication Engineering at KLS Gogte Institute of Technology, Belagavi | 9.01 CGPA | 2018 - 2022.
- 12th - Adarsh PU science college, Hubli | 86.16% | 2018.
- 10th - Dr|| G E M R S school Shiradhan, Hukkeri | 92% | 2016.

Professional Experience

KPIT

- Trainee: September 2022 - November 2023

Job description

- Experience in analysis, development and implementation based on the requirements.
- Demonstrated strong problem-solving skills while troubleshooting technical issues under tight deadlines.
- Increased client satisfaction by delivering high-quality work on time.

Projects

ADAS (Advance driver assistance system)

- Worked on GUI development using python, PyQt and qt designer tools.
- Analyzing and developing test cases based on requirements.
- data analysis using CAN data and video data with the help of FS viewer tool.
- Analysis of data using google map street view.

Technical Apprenticeship

Emertxe Technologies Private Limited | January 2024 – present.

- Acquired advanced programming skills in C for more functionality, data structures, C++, and worked in an environment based on Linux.
- Learned to code for the PIC18F4580 microcontroller board that is optimized using Embedded C.

Projects

LSB Steganography

- Steganography can be used to hide virtually any type of digital content, including text, image, video, or audio content.
- We are hiding text data, and that hidden data is then extracted at its destination.

Address Book

- Address Book is a small application written in C language. It keeps track of names and telephone/mobile numbers and e-mail addresses.
- It is a console-based application which uses standard I/O for adding, searching, editing, deleting contact names, phone numbers and e-mail addresses.

Car Black-Box

- The goal of this project is to implement core functionalities of a car black-box in a PIC-18F4580 based micro-controller supported by various peripherals.
- Events will be logged in EEPROM, continuous monitoring and logging of events (ex: over-speeding) is critical for effective usage of black box and this project can be further extended to any vehicle.

Inverted Search

- An inverted index is an index data structure storing a mapping from content, such as words or numbers, to its locations in a database file, or in a document or a set of documents.
- The purpose of an inverted index is to allow fast full text searches, at a cost of increased processing when a document is added to the database.

Mini shell

- The goal of this project is to implement a mini-shell that mimics the BASH shell by using Linux Kernel System calls and IPC mechanisms like signals. It will also handle special keyboard actions (ex: Control C).

Soft Skills

- **Programming Languages:** C, C++ (Oops), Python, Embedded C, Data Structure.
- **Tools:** VS code, MPLABx IDE, FS viewer, QT Designer.
- **Development Boards:** PIC18F4580
- **Communication Protocols:** UART, SPI, I2C, CAN.

Certifications

- Programming for everybody using Python

Achievements

- Achieved high CSAT rating for the projects at KPIT from the customers.