

PRITEE KADROLI

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OBJECTIVE

To work for an innovative company which provides me with an opportunity to advance my knowledge and abilities, where I can fully use my skills for the development of the company and my career.

EDUCATION

COURSE	INSTITUTION	YEAR OF PASSING	RESULT
SSLC	SMT.R.N. Patil girls high school Sangli, Maharashtra	2013	55.60%
Diploma (E&C)	K.L.E' S Polytechnic Bailhongal, Karnataka	2017	63.50%
B.E (E&C)	SG Balekundri Institute of Technology, Belgaum, Karnataka	2023	7.66

SKILLS

Microcontroller families: 8051, PIC-18f4580, NodeMCU ESP8266.

Scripting languages: BASH

Operating systems: windows, Linux

Communication protocols: UART, I2C, CAN, SPI etc.

Programming languages: Embedded C, C++, Python, Data structure in C, Linux Internals.

PROJECTS

1. Accident detection and alert system

This system alerts nearby medical centers about two-wheeler accidents to provide immediate aid. It uses an accelerometer to detect vehicle tilt. Upon detecting an accident, it sends information to a smartphone via GSM and GPS modules, which then texts the nearest medical center and friends. The application shares the exact accident location, saving critical time.

2. IOT Irrigation Monitoring & Controller System

This project helps farmers and gardeners remotely monitor and control water supply to their crops using IoT technology. An Arduino Uno board connected to a Wi-Fi module updates a website with real-time soil moisture levels and motor status. Users can check moisture levels and toggle the motor to control the water pump from anywhere, preventing water-logging and drought conditions.

3. ATmega controller based solar wireless electric vehicle charging

The Atmega solar-based EV charger uses solar energy from PV panels, stored in a battery bank, to charge electric vehicles. Managed by an Atmega microcontroller, it includes a user interface for monitoring and control, and safety measures against over-voltage and over-current. Supporting wireless and on-the-go charging, it's ideal for remote locations.

4. LSB Image Steganography

In this project, an image file (of .bmp format) is used as an input (carrier) to the Encoding Algorithm on which a file named "secret.txt" (or any other file formats of prescribed size) will be encoded to thereby generate a "output.bmp" (encoded file). This file (i.e., output.bmp) will then be used as an input to the Decoding Algorithm, which will ultimately. Generate back the "secret.txt" as its output.

5. Address Book.

This project use to manages names, phone numbers, and email addresses. It includes features for adding, deleting, searching, and updating contacts, utilizing command line arguments, input parsing, and file operations.

6. MP3 Tag Reader

The MP3 tag reader is a software which will read and display MP3 (ID3) tag information from MP3 files. The software will be desktop based and not web based. The project will be useful to individuals who wish to view and collect MP3 tag data. This project can be extended to implement a tag editor, where in users can modify mp3 tag information.

7. 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. It is the most popular Data Structure used in Document Retrieval Systems, used on a large scale (for Eg: In Search Engines). This project mainly involves the use of Linked List and Hashing Algorithm for the purpose of Database Creation.

8. Car Black Box

Black Box implementation in an Automotive System to log critical events. This will help in pro-active vehicle monitoring and maintenance. The proposed solution is to log all the critical events like the gear shifts with current speed, the engine temperature, fuel consumption per trip, trip distance etc., The system should allow a password-based access to the transport managers to view or download the log to PC if required.

9. Minishell

The purpose of this project is to create mini-shell which performs specific commands, it works like main shell only, provide a prompt for the user to enter commands, executes the command entered by the user, special variables like echo \$?, echo \$\$, echo \$SHELL, signal handling line SIGINT and SIGTSTP, built in commands and pipe functionality.

INTERNSHIP

Completed four-week internship on IOT at GTTC Belagavi.

TRAINING

Completed hands-on technical training program - **Advance Embedded Systems** Course at **EMERTXE** Information Technologies, Bangalore.

WORK EXPERIENCE

July 2017 to July 2018

Company name : **Bharat Electronics Limited (BEL)**

Role & Job profile : TAPP Trainee at BEL

Completed 1-year Diploma Apprenticeship Trainee (DAT) in BEL (Development & engineering / Missile System) Bangalore.

VVPAT PU & IU Testing & scanning, symbol loading, programming.

Involvement in preparing block Diagram & schematic Diagrams using VISIO & ORCAD.

April 2019 to Sep 2019

Company name : **Opto Circuits Ltd, Bangalore**

Role & Job profile : Trainee

Completed 6 Months Quality & testing executive at Opto circuits Bangalore.

Maintaining the daily Quality Report & Reporting to the manager.

Quality Checking & Testing of Optical cables.

PERSONAL DETAIL

Date of Birth: 24/06/1998

Address: Gundloor Chal 1st cross Bailhongal – 591102, Dist : Belagavi.

Language Known: English, Marathi, Hindi, Kannada.

HOBBIES

Playing outdoor games, Travelling, painting, Photography

DESCRIPTION

I hereby declare that all the above information is correct to the best of my knowledge.

Date :

Place: Bangalore

(Pritee Kadroli)