

DARSHAN KUMAR TV

CAREER OBJECTIVE

Looking for a challenging and responsible opportunity, explore strengths and potentials and to continually develop my technical skills in the field of embedded systems.

WORK EXPERIENCE

- Hands-on technical training program - **Advanced Embedded Systems Course** at Emertxe Information Technologies (<http://www.emertxe.com>), Bangalore

TECHNICAL SKILLS

- Programming Languages:
 - Advanced C programming
 - OOPs in C++
 - Data structures
- Embedded controllers:
 - Hands-on working GPIOs, Analog I/Os, Memory usage, interfacing, character LCD
 - Peripherals usage - Timers, Counters and Interrupts
 - Communication protocols - UART, SPI, I2C etc.
- Embedded platforms:
 - Distributions - Linux (Fedora / Ubuntu)
 - PIC (18F4520) board
- Development environment and tools:
 - Dev environment: Vim, Makefiles, MPLAB
 - Compilers: GCC, XC8, ARML-Linux-gcc

PERSONAL ATTRIBUTES

- Quick learning of new initiatives
- Ability to meet deadlines through effective time management
- Ability to work effectively under pressure
- Team player with work ethics, committed to work hard and sincere
- Problem Solving

EDUCATION

BE(ME)
Governament Engineering College Ramanagara - 562159

2019 - 2023
CGPA 7.21

PUC(PCMB)
Sri Bhruhanmutta PU College Chitradurga

2018 - 2019
percentage
65%

SSLC
STSR High School Nayakanahatty

percentage
75.36%

CONTRIBUTIONS AND ACHEIVEMENTS

- Been a Team-leader in School
- Performed in several AICTE Activities
- Won prizes in inter-level college Competition

PROJECTS AT EMERTXE

Project 1

Image Steganography using LSB Encoding and Decoding

Project brief

The objective was to send a secret text file encoded inside an image of bmp file format. Encoded the length of the secret text and then encoded the data into the LSB of the image bytes. The decoding process involves decoding the length and then decoding the text bit by bit. The final output is the secret text after decoding.

Technologies used

Embedded C - File operations, Pointers, Bitwise operations, Functions, Makefiles, Command line arguments.

Project 2

Inverted Search

Project brief

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.

Technologies used

Data Structures & Algorithms.

Project 3

Car Black Box

Project brief

Black Box implementation in an Automotive System to log critical events. This will help in pro-active vehicle monitoring and maintenance. By implementing a Black Box which would log critical activities on the car and take appropriate actions in case of rash driving. The system should allow a password-based access to the transport managers to view or download the log to PC if required.

Technologies used

Communication Protocols & PIC18F45

Project 4

Arithmetic Precision Calculator

Project brief

Understanding basic logic of mathematical operations. Designing and understanding all the scenarios and covering in Design before slicing. • Also taking care of carry and borrow which can be used for further operations. And learnt about Linked list's array creation.

Technologies used

C using Data structures - Linked lists, String related functions, Mathematical Algorithms.

ACADAMICS PROJECT

Title

Multy purpose Hybrid cleaning machine

Project brief

The Amphibious Hybrid Cleaning Machine is an innovative solution designed to revolutionize cleaning operations in both urban and aquatic environments. This versatile machine combines the capabilities of traditional land-based cleaning equipment with amphibious functionality, allowing it to seamlessly transition between land and water surfaces. By integrating advanced technology with amphibious design, this machine offers a comprehensive solution for maintaining cleanliness in diverse environments with efficiency and environmental responsibility.

PERSONAL INFORMATION

Father's Name : Venkatesh TV
Mother's Name : Lakshmi
Date of Birth : 27/12/2000
Gender : MALE
Marital Status : Single
Nationality : Indian
Languages known : Kannada,English,Telugu,Hindi,Tamil
Permanent Address : Nayakanahatty,Challakere(Taluk),Chitradurga(District),Karnataka 577536
Email : darshankumartv07@gmail.com
Phone : 9353842016

DECLARATION

I here by declare that all above information is in correct with fact or truth up to my knowledge and breathe responsibilities for the correctness of the above-mentioned particulars.

PLACE : Bangalore

DATE :

With regards
Darshan kumar TV

