

# KOTTHURI GOPI ANAND

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## PROFILE

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Highly motivated and skilled with a strong foundation in programming languages like Advanced C, Linux and Microcontroller. Recently graduated with a Bachelor's degree and eager to contribute to a dynamic software development team. Possess excellent problem-solving skills and a strong attention to detail.

## EDUCATION

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**M.S.R Junior College** 2017 – 2019  
Intermediate in stream MPC, CGPA: 9.59

**Sumedha High School** 2016 – 2017  
Schooling 10th, CGPA: 9.5

## TECHNICAL SKILLS

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**Programming Languages:** Embedded C, Data structures, C

**Microcontroller:** Pic Microcontroller (18F4580)

**Communication Protocols:** UART, SPI, I2C, CAN

**Networking Protocols:** TCP/IP

**Tools/platform:** Xc8, Ubuntu, Linux, Windows

## PROJECTS

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### LSB Image steganography (Adv C)

Project Brief : The objective was to send a secret file encoded inside an image of a BMP file format. Encoded the length of the secret text and then encoded the data (password or secret message) into the LSB of 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 : Advanced C - File Operations, pointers, Bitwise operations, Functions.

### Inverted Search (DS)

Project Brief : An inverted index is an index data structure storing a mapping from content, such as words or numbers, to its locations in database file, or in documents or a set of documents.

Technologies Used : Hashing, Single Linked List.

### Car Black Box (Microcontroller)

Project Brief : Developed a car black box system, implementing real-time capture and analysis functionalities using PIC microcontroller, resulting in a more accurate vehicle data for accident reconstruction and safety analysis. The car black box typically stores data such as Time, Speed, Gear usage, Acceleration.

Technologies Used : I2c protocol along with RTC, EEPROM, CLCD, ADC.

Software used : Embedded C (MPLAB x IDE)

## CERTIFICATES

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- Certified as Embedded systems at Emertxe 

## INTERNSHIP

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### Internship Completed at Emertxe Information Technologies.

Hands-On Exposure on Foundational Programming Skills in C & Micro-Controllers.

SDLC Based Project Building in Embedded Systems.