

## BALIMIDI NAGASIVA

### EMAIL ID

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### CONTACT NO.

7396514791

### CAREER OBJECTIVE

Looking for a challenging and responsible opportunity, explore strengths and potentials and to gain experience from a professional organization to meet employer expectations and to continuously develop my technical skills in the field of embedded systems with a view to join a team of professionals and to work with a progressive company for a long and rewarding career.

### WORK EXPERIENCE

I have worked in DXC Technologies in a Production region as a technical support in the Xerox project from 09-02-2022 to 01-10-2022.

DXC – Associate Software Engineer

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

### TECHNICAL SKILLS

- Programming Languages:
  - Python programming
  - Advanced C programming
  - OOPS concept
  - Data structures
- System programming:
  - Linux Kernel system calls
  - IPC mechanisms – Pipe, FIFO, Shared memory
  - Embedded controllers:
- Peripherals usage - Timers, Counters and Interrupts
- Communication protocols - UART, SPI, I2C etc.
- Development environment and tools:
  - Dev environment: Vim, Make files, MPLAB, Qt Creator
  - Compilers: GCC, ARM-Linux-Ubuntu

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## PERSONAL ATTRIBUTES

- Quick learning of new initiatives .
- Dedication and performance towards work.
- Ability to meet deadlines through effective time management, Ability to work effectively under pressure.
- Maintaining healthy interpersonal relationships with team.
- Team player with work ethics, committed to work hard and sincere.

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## EDUCATION

B-TECH (EEE) – PRAKASAM ENGINEERING COLLEGE-  
8.1CGPA

DIPLOMA (EEE) – GOVERNMENT POLYTECHNIC COLLEGE -  
88%

X - Class, S.P.C.N.M HIGH SCHOOL – 88 %

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## PERSONAL INTERESTS

- learning new things
- watching thriller movies
- playing outdoor games
- Listening to Music, Workouts

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## ACADEMIC PROJECTS

### **Grid interconnection of renewable energy sources at the distribution level with power quality improvement.**

**Description:** The main aim of this project is to give uninterrupted quality of power to the customers at low cost by reducing unbalance currents, load current harmonics, and load neutral currents. The causes and consequences of the unbalance currents and load current harmonics are, we have different types of consumers, that consumers consume different type of power. so this is the main reason unbalance currents are occurred and load current harmonics are caused due to power electronics equipment like transformers, motors, and converting equipment. it causes energy loss and malfunctioning of equipment.

This improves the output power and efficiency, reduces the harmonics in the inverter output and gives the sturdy output Using solar power as input.

## EMERTXE PROJECTS

### **Project Title : Command Line Test**

**Description:** Command line test is a BASH shell based tool that simulates login based online testing scenario. Initially the user will be provided with a sign-in option where pre-defined users will be allowed to log in. Upon successful login this tool will display questions for the user from existing data-base. It will also handle error conditions like time-out. This tool will also store answers provided by users for future verification.

### **Project Title : 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, Make files, Command line arguments

#### **Key challenges & Learnings**

- Understanding of pixels and header of image file by doing literature study Transforming the embedded information to the destination without changing properties of original image
- Faced challenges while doing bitwise manipulation of data to embed as well to retrieve the data from the destination image which was solved by self understanding.

## INTERNSHIP

RAYALASEEMA THERMAL POWER GENERATION PLANT - April 2017- July 2017

Title: Maintenance and testing of relays

Skills: Relays and circuit breakers

## PERSONAL INFORMATION

Date Of Birth	04-04-2000
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Country	INDIA
Father's Name	RAMANARAYANA BALIMIDI
Gender	MALE
Languages Known	TELUGU, ENGLISH
Address	RAMESWARAM, PRODDATUR, ANDHRA PRADESH, PINCODE – 516360.

I hereby declare that all above information is in correct with factor truth up to my knowledge and I bear the responsibilities for the correctness of the above-mentioned particulars.

NAGASIVA BALIMIDI