SAI CHARAN MANDAMULA

DEGREE	:	B.Tech
BRANCH	:	Electronics and Communication Engineering
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CAREER OBJECTIVE

- To work for the development of the organization and self, also to strive for betterment of my position in the organization.

EDUCATION

Bachelor of Technology
Vellore Institute of Technology
2016-2020   *8.40 CGPA*

Class XII
Narayana Junior College
2014-2016   *90.3%*

Class X
Rao's High School
2014-2016   *90.0%*

INTERNSHIP

B.S.N.L

TRANIEE   *May 2018*

I worked with B.S.N.L, Hyderabad as a trainee for one month to learn about the telecom technology and the advancement in communication system.

Reliance Jio Infocomm Ltd.

TRANIEE   *June 2018*

I worked with Reliance Jio Infocomm Ltd, Hyderabad as a member in R.F Team which works on real time applications of Radio Frequencies of mobile phones.

SKILLS

Programming Languages

- Java, C ,Python
- Data Structures using C and Java
- Basics of MATLAB
- Verilog
- 8051 Microcontroller (Keil uVision)
- 8085, 8086 Microprocessors(GNU simulator)
- HTML, CSS(Basics)
- Neural Networks (Basics)

Simulation Tools

- NI Multisim
- ModelSim
- NetSim
- Cadence Virtuoso
- Proteus Design Suite

CAPSTONE PROJECT   *Nov 2019 – May 2020*

Title: *Microphone Array and Raspberry Pi Interfacing for Real-time DOA Estimation and Tracking of Audio Sources*.

This project presents the design and implementation of a real-time embedded system (RTES) for audio source localization.

It involves capturing of sound signals using 4 mic array and using Generalized cross correlation-phase transformation (GCC-PHAT) algorithm to calculate the direction of arrival of the sound source.

PROJECTS

Video Compression using Huffman Coding.

Dec 2018 – Apr 2019

Role: Designing an efficient algorithm to compress the video.

Description: Any data to be transmitted from transmitter or received at receiver is in a compressed format. The Text message is easy to encrypt and decrypt if there is any loss of data that can be easily recovered by using check bits, whereas transmitting of large files like images or videos has to be followed with certain algorithms in order to recover the data easily.

As the image or video files occupy large amount of memory transmitting such large files is very hard. This project helps in compressing such files without any loss of data.

Automated Robotic Arm

July 2018 – Nov 2018

Role: Involved in Designing and making a proto type using Arduino as an interface.

Description: Technology of today is becoming smarter and more automated. An automated robot can smartly do all the works which is taught to it. It helps in harvesting in paddy or wheat fields where the man power is replaced with machine power.

USafe – Your Personal Guardian

Dec 2018 – Apr 2019

Role: Building App and interfacing with hardware prototype

Description: With growing crime rates against human beings, be it rapes, assaults, human trafficking, and what not, there is a need to make use of technology to ensure safety of people in any event of an attempt to eradicate these crimes.

Covering all the negative situations that may arise during the unfortunate incident, a full stack prototype is made which has the full potential of being developed into a compact device that can change the image how a person perceives his / her safety.

CERTIFICATIONS

- Published a SCOPUS indexed journal on capstone project.

  (DOI: 10.30534/ijeter/2020/82852020)

- **RF Trainee** by Jio infocomm ltd.

- **VLSI CAD Part II: Layout** by University of Illinois on coursera.

- **Neural Networks and Deep Learning** by Deeplearning.ai in coursera.

- **Object-Oriented Programming with Java** a guided project on coursera.

CO-CURRICULAR ACTIVITIES

- **Secretary** of IEEE Communications Society (IEEE COS). *Apr 2018 – Apr2019*

- Participated in various events in the tech fests held in VIT University.

- Have built a website for international conference ViTECoN'20.

- Worked as coordinator for workshop, VIT Gravitas 2018.

- Worked as Manager for the IEEE International conference ViTECoN'19 conducted in march'19.

PERSONALITY

- Self-motivated.
- Time Management.
- Accountable.
- Adaptive.
- Team player.

PERSONAL DETAILS

Gender	:	Male
Date Of Birth	:	22nd Nov 1998
Languages known	:	English, Telugu, Hindi (RWS).
Hobbies	:	Playing Badminton and Listening songs.

I do hereby declare that the particulars of information and facts stated here in above are true, correct and complete to the best of my knowledge and belief.

Place: Hyderabad.

Date: 07-07-2020.