MISS. SWETHA K

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# Objective:

Looking for a challenging career which will demands the best of my professional ability in terms

of technical and analytical skills and helps me in enhancing my current skills and knowledge.

# Academic Credentials:

## 2017- T John Institute of Technology, Bangalore, Karnataka.

Visvesvaraya Technological University.

B.E. Electronics and Communication Engineering with 8.1 CGPA**.**

## 2017- Bharathi Matriculation Higher and Secondary School, Coimbatore, Tamil Nadu.

State Board – 92%

## 2015- Nirmala Matriculation higher and Secondary School, Coimbatore, Tamil Nadu.

State Board- 98.4%

# Skill Set:

**Programming Languages:** C, C++, Embedded C, Core Java

**Microcontrollers:** 8086 microprocessor, ARM Cortex M3, Arduino, STM32 **Software:** IDE- Keil, Arduino IDE, Xilinx, STM32 Cube IDE

PCB Designing- Eagle Motor designing- JMAG

Circuit simulation- PSpice

**Work Experience:**

**Electrical and Electronics Design Engineer- Elecnovo Pvt Ltd (August 2021)**

. Experience in Component selection and Schematics preparation.

. Knowledge on different semiconductor devices like MOSFET, IGBT, diodes and necessary circuits like snubber, gate driving, protection circuit etc. for the motor control application.

. Soldering and testing the controller to validate the design.

. Work with established programming standards for the motor controller.

. Experience in PCB designing using Eagle software for the hall sensors.

. Create and/or update electrical simulations of electric motors.

. Create technical documents explaining the characteristics of the motor.

. Installation of hall sensors into the motors and testing it, to validate the characteristics of the motors.

## Internships:

**.** Completed an internship at Techciti Technology as a software intern in Python domain.

. Completed internship at Technologics Global Pvt Ltd on Embedded C Programming, Embedded Hardware Design and Development.

. Completed an internship at BramHansh Technologies on Embedded and Electronics for duration of 3 months.

. Completed an internship at Elecnovo Pvt Ltd as an Electronics Intern for the duration of 2 months.

## Academic Project:

Project: Electric Vehicle charging stations infrastructure using LoRa.

. It gives the prototype for EV charging infrastructure in which LoRa technology plays a major role.

# Papers presented:

Presented a paper on titled “**Role of Arduino in the underground cable error detection and correction”** in the National Conference in the year 2018.

# Online courses and Certification:

. Certification in fundamentals of C by Bharathiyar University.

. Certification in fundamentals of C++ by Bharathidasan University.

**Workshops/ Industrial Exposure:**

. Attended a workshop conducted by Maven silicon on VLSI design technologies.

. Visited ISRO in the year 2018 and Dfacto in the year 2019.

# Achievements:

Awarded for scoring centum in science subject and also placed in the list of **TOP 5** overall school ranking by securing 98.5% in SSLC examination.

# Strength:

. Self-confidence and hard working.

. Ability to learn things faster and better.

**Personal data:**

Date of birth: 3rd April 1999.

Father’s name: Mr. M. Kumaresan.

Mother’s name: Mrs. K. Vijayalakshmi.

Address: No 40, Lakshmi Nilaya, 2nd cross, Btm 1st stage, Tavarakere, Bangalore-560029 .

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Languages known: English, Tamil, Telugu, Kannada, French.