

Sumanth G S

e-mail:sumanth009sada@gmail.com

Mobile : +91 966 369 4822

Bachelor of Engineering
Electronics and Communication Engineering

Professional Objective:

Seeking an opportunity where I can gain and utilize my skills and knowledge to the growth of an organization. An enthusiast looking for a job profile in an established organization.

Key Strengths:

- ✓ Willingness to learn, Innovative and Optimistic
- ✓ Strong interpersonal communication skills with all levels of personnel
- ✓ High level of patience & the ability to follow complex problems through to resolution
- ✓ Ability to work individually or as a member of a team

Technical Skills: Basic C Programming, HTML, CSS, Bootstrap, Javascript, React JS, TailwindCSS, MySQL

Languages: Kannada, English, Hindi

Academics:

<u>Grade</u>	<u>Institution</u>	<u>Year</u>	<u>Results</u>
10th Grade (CBSE)	Prarthana Education Society	2016	CGPA 8.4
Pre-University	Shri Gururaja Parents and Teachers Association	2017-18	83%
Bachelor of Engineering	BMS College of Engineering	2018-22	CGPA 7.74

Projects & Engagements

Projects In BMSCE(2018-2022)

1. Soil Moisture Sensor with Automated water flow [2019-2020]

Overview: A low-cost Arduino based Automatic Irrigation system using Soil moisture sensor is presented in this paper in which the soil moisture sensor gives its output depending on the conditions of the soil and later with the help of Arduino it gets worked. As agriculture is given higher priority in the life of an economy so for the better agricultural growth, water is essential factor. Lack of enough water and excess of water leads to damage of plants. So, we need an effective and efficient technology for better farming. Thus, the usage of a low cost arduino based automatic irrigation system using soil moisture sensor is expected to be useful to for the irrigation process in agriculture. This system requires an Arduino-UNO which contains ADC converter in it.

A soil moisture sensor is the main component in this system which is used to measure the conditions of the soil like whether the soil is dry or wet. For displaying the conditions of the soil, 16×2 LCD display is the better choice to display and at last a motor is used to pump the water to the plant or crops.

2. Piezo-electricity [2020-2021]

Overview: The system allows for a platform for placing footsteps. The piezo sensors are mounted below the platform to generate voltage from footsteps. The sensors are placed in such an arrangement to generate maximum output voltage. This is then provided to our monitoring circuitry. The circuit is a microcontroller-based monitoring circuit that allows user to monitor the voltage and charges a connected battery by it. It also displays the charge generated and displays on an LCD display. Also, it consists of a USB mobile phone charging point where user may connect cables to charge mobile phone from the battery charge. Thus, we charge a battery using power from user footsteps, display it on lcd using microcontroller circuit and allow for mobile charging through the setup.

3. Lora Based Vital Monitoring System [2021-2022]

Overview: In this project we proposed a LoRa based vitals monitoring system can solve the problem mentioned. LoRa has advantages over Wi-Fi such as long range and low power consumption. The data from the sensors that are attached to the patients are transmitted to the web server by using LoRa module. This data of all the patients can be monitored using a webpage and hence solving the problem of lack of nurses.

4. Technical Seminar [2021-2022]

SMART EARTH TRANSPORTATION using IOT

Overview: In this project we proposed a smart waste management system, which eliminates the need for any human intervention. It is a completely autonomous system, based on IOS. Making the transport system smart is a key to making the earth a smarter and more efficient place. This system is possible by attaching various sensors to dustbins and connecting them to the internet. These sensors send live data to the cloud, which is downloaded and processed by the autonomous garbage truck. This information is processed. Then based on this information, the truck autonomously moves to the location, collects the garbage, and transports it to the dumping location.

5. DYNAMIC BEAM STEERING FOR 5G [2021-2022]

Overview: Data rates are exponentially increasing from one generation to the next. 4G had a peak data rate of up to 1Gbps, which has increased to a peak data rate of 20Gbps for 5G. But increased data rates come with increased complexity of the system. 5G must be able to handle far more traffic at much faster rates than the base stations that make up today's cellular networks as the number of mobile users and their demand for data increases. The millimeter wave (mm-waves) frequency area has caught the attention of the scientific community as a viable solution to the bandwidth and capacity concerns, and it is now acknowledged as the key technology in fifth generation communications to meet the enormous demands of data traffic (5G). Higher frequencies of electromagnetic waves get easily attenuated due to various

environmental factors.

We proposed a machine learning based solution for the above-described task for beam steering. We take input from the user directly or take various sensor outputs and then use that data as an input to our phased array. We are using Machine learning and antenna designing techniques to do beam steering.

Undergoing Projects:

1. My Portfolio using ReactJS.
2. STAT-TRACK - An analytical project using XHTML, JavaScript, ReactJS.

Personal Profile:

Name	:	Sumanth G S
Passport No	:	N4135976
Father Name	:	G Sadashiva
Date of Birth	:	20 th July 2000

Sept 2023
Place: Bengaluru

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