

# SIVAPRAKASH M

+919360202765 | [siva28feb@gmail.com](mailto:siva28feb@gmail.com) | [LinkedIn](#)

## Profile Summary :

Highly motivated Electronics Engineer with a strong foundation in microcontrollers and embedded systems. Experienced with Raspberry Pi 4B, Arduino Uno, ESP8266, and ESP32, ESP32S3 along with diverse sensors and actuators. Proficient in C, Embedded C, and real-time debugging. Eager to contribute to innovative hardware-software integration projects and grow in embedded system development.

## EDUCATION :

GOVERNMENT COLLEGE OF ENGINEERING SRIRANGAM

Trichy , India

B.E.Electronics and Communication Engineering; CGPA: 7.3

2022 - May 2025

GOVERNMENT PLOYTECHNIC COLLEGE TRICHY

DIPLOMA in Electronics and Communication Engineering

SEP 2020- JUN 2022

Academic percentage : 92%

## Technical Skills :

- Languages: C , Python
- Microcontrollers & Microprocessor: Raperrypi 4B Model, ESP8266, ESP32, Arduino UNO, ESP32s3&c3
- Design: Fusion 360 And 3D Printing.
- Tools & IDEs: Visual Studio Code, Arduino IDE , Fusion 360, Blink, Arduino iot cloud
- Soft Skills: Self Learning, Creativity & Innovation, Problem-Solving, Time Management, People Management

## WORK EXPERIENCE

**Innovation Engineer Intern| FORGE | LINK**

**March 2025- JUN 2025**

- Gained hands-on experience in Programming, Mechanical design(Fusion 360), MIT App Inventor prototyping, 3D printing and tools like Git, GitHub, and Trello.
- Demonstrated leadership in project execution while building knowledge in intellectual property, rapid prototyping and innovation strategy.

**Mobile Network Model Intern| BSNL | LINK**

**July 2024- August 2024**

- Gained hands-on experience in telecommunication protocols, network switching, and power management systems relevant to embedded and communication hardware.
- Assisted in analyzing embedded system integration within mobile network modules and customer service operations, strengthening practical exposure to embedded communication systems.

## Project :

**Underwater Remotely Operated Vehicle (Rov) |**

Developed a 6-DOF ROV using 6 BLDC motors with ESCs for precise underwater navigation and real-time video streaming via Raspberry Pi 4B and Pi Camera. Designed power systems with 4S LiPo battery, LEDs, and modeled the structure in Fusion 360 focusing on hydrodynamics and stability.

**SOLAR PANEL AUTOMATIC CLEANER | Arduino UNO, Motor drive L298N and Motor**

Develop a bot that cleans solar panels by itself. It uses brushes or wipes to remove dirt and dust, helping the panels work better and produce more energy. It runs on battery, so it doesn't need extra electricity. This saves time and effort by cleaning the panels without human help

**Wi-Fi Remote-Controlled IoT Car | Esp8266, Dc motor, Motor Drive L298N and Arduino iot cloud | [link](#)**

Developed an IoT-enabled smart car that can be remotely controlled over Wi-Fi using the Arduino IoT Cloud platform. Integrated motor control logic with cloud-based dashboard and commands for directional navigation (forward, backward, left, right, stop)