

# SARATH M

'Saranya' (H)  
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*Seeking a challenging job in an organization where I can  
follow my passion for Embedded Systems and Programming*

## Experience

2015–Present **Embedded Systems Engineer**, WIREWORDS ACADEMY, Cochin, Kerala.  
Led the Embedded Department of WireWords Academy.

Detailed achievements:

- Experienced in programming Linux based boards BeagleBone Black and Raspberry Pi
- Experienced in multiple Programming Languages: C, C++, Python, SQL etc.
- Responsible for the Development of the Web based Embedded product "Monylitic"
  - Solved following issues:
    - Reliable long distance data transmission using Sim900 based GSM Module
    - Developed code that handles issues like low range, sending failure etc.
    - Responsive Webapp for the product

## Technical skills

- Embedded Systems
- Linux Single Board Computers
    - Raspberry Pi, BeagleBone Black
  - Microcontroller's
    - 8051, Arduino
  - Other Hardware
    - *Programmable Logic Controller's (PLC)*
    - Sim900 GSM Modem
    - RFID reader
  - Communication Protocol's
    - RS-232, I2C, SPI, USB, Modbus ASCII

Programming C, C++, Python, SQL, git

- Other Platform's
- TCP and UDP Socket Programming
  - Linux System Programming
  - Web Development Using Python FLASK framework
  - *Cloud Computation* using AMAZON WEB SERVICES
  - System GUI Application Development using Python PYQT Library

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## Education

- 2014 **Advanced Course in Embedded Systems**, *Vector India Institute*, Bangalore, Karnataka.
- 2010–2014 **B.Tech in Electronics and Communication**, *Govt. College of Engineering Cherthala*, COCHIN UNIVERSITY OF SCIENCE AND TECHNOLOGY, Kerala.
- 2010 **12th Grade**, *Talent Public School*, CBSE, Kerala.
- 2008 **10th Grade**, *Talent Public School*, CBSE, Kerala.

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## Awards & Achievements

- 2014 **SRISHTI 2014**, *State Level Project Competition*.
  - o The Project "**Hexapod**" was selected as **Top 13** in the **Finals**
  - o Project Competition was organised by
    - AICTE
    - Startup Village
    - Kerala Financial Cooperation
    - Saintgits College
- 2005 **Black Belt 1st Degree in Karate**.  
Awarded in Shito-Ryu style of Karate

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## Academic Projects

- o **Major Project: Hexapod Robot For Agricultural Application**  
It is a versatile six legged robot optimised for uneven terrain. The applications include planting crops, weed detection and sensor data collection.
- o **Minor Project: Godown Automation**  
It was an attempt to automate a godown by including sensor based smart lighting and an anti-theft alarm.

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## Personal Details

- o Name : Sarath.M
- o Mother's Name : Leena.N
- o Date Of Birth : 27/09/1992
- o Sex : Male
- o Current City : North Paravoor, Kerala
- o Languages Known : English, Malayalam, Hindi