

# 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 R&D Engineer**, UNISYNC TECHNOLOGIES, Vyttila, Kerala.
- Well versed in Embedded development using **C & Python**
  - Hands on experience in **Linux SOC's**: BEAGLEBONE BLACK & RASPBERRY PI
  - Experienced in multiple Programming Languages: **C, Python, SQL**
  - Experienced in **Multi-threaded User Interface** development

## Project Handled

- Project Title **PiMote**
- Description A wireless control and monitoring system based on the latest MQTT protocol
- Roles & Responsibilities :**
- Testing and Development of MQTT client and broker architecture
  - Development of a web based Control Panel
- Project Title **MONYLITIC**
- Description A **web based Remote System Monitoring** platform
- Roles & Responsibilities :**
- Configuring the environment on **Raspberry Pi, BeagleBone Black**
  - Configuration and Administration of **Amazon Web Server**
  - Development of responsive **mobile friendly web application**

## Education

- 2015 **Course in Embedded Systems**, Rhydo Technologies, Cochin, Kerala.
- 2014 **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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## Academic Projects

- **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.
- **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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## Technical skills

Embedded Platform

- **Microcontroller's**
  - Raspberry Pi
  - BeagleBone Black
  - LPC2148/LPC2138
  - 8051
  - Arduino
- **Other Hardware**
  - PROGRAMMABLE LOGIC CONTROLLER'S (PLC)
  - Sim900 GSM Modem
  - RFID reader
- **Communication Protocol's**
  - RS-232, I2C, SPI, **Modbus ASCII, MQTT**

Programming **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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## Awards & Achievements

### Professional Achievements :

- 2015 **Started** the **Embedded Systems wing** of Unisync Technologies.
- 2015 Reduced **monthly expenditure** on Web Server from **Rs 500** to **zero**.

### Other Achievements :

- 2014 The Project "**Hexapod**" was selected as **Top 13** in the **Finals** in **State Level Project Competition: SRISHTI 2014** held at SAINTGITS College, Kottayam
- 2005 Awarded **Black Belt** in Shito-Ryu style of **Karate**.

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## Soft Skills

- Good Managerial and Communication Skills
  - Elected as College Senate Member (2011-2012)
  - Training and Placement Cell Co-ordinator (2012-2013)
  - Active member in NSS & Nature Club
- Patient and Active listener
- Fast Learner; Willing to be Trained

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## Personal Details

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