

SARATH M

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*Seeking a challenging job in an organization where I can
follow my passion for Embedded Systems and Programming*

Experience

Embedded R&D Engineer, UNISYNC TECHNOLOGIES, Vyttila, Kerala.
(January 2015 - Present)

- Well versed in Embedded development using **C & Python**
- Hands on experience in **Linux SOC's**: BEAGLEBONE BLACK & RASPBERRY PI
- Experienced in multiple Programming Languages
- Experienced in Web and System based **GUI 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

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.

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.

Technical skills

Microcontroller's

- **Raspberry Pi**
- BeagleBone Black
- **ARM7** (LPC2148, LPC2138)
- 8051
- Arduino

Other Hardware

- PROGRAMMABLE LOGIC CONTROLLER'S (PLC)
- Sim900 GSM Modem
- RFID reader

Programming

C, Python, SQL, git

GUI Developement

- GUI developement using **LabVIEW**
- **Web Development** Using Python **FLASK** framework
- System **GUI Application Development** using Python **PYQT** Library

Protocol's

- RS-232, I2C, SPI, **Modbus ASCII**, **MQTT**

Other Platform's

- **TCP** and **UDP** Socket Programming
- **Linux** System Programming
 - Setting Cron Jobs
 - Interprocess Communication
 - Multi-threading
 - Signal Handling
- **Cloud Computation** using **AMAZON WEB SERVICES**

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**.

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

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 |