

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

- 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, C++, Python, SQL**
 - Experienced in **Multi-threaded User Interface** development

Project Handled

Project Title **MONYLITIC**

Description A **web based Remote System Monitoring** platform

Roles & Responsibilities :

- Configuring the environment on **Raspberry Pi, BeagleBone Black**
- Implementation an optimised **TCP based Communication Protocol**
- Configuration and Administration of **Amazon Web Server**
- Development of responsive **mobile friendly web application**
- Automation of **run-time error handling** without user interference

Technical skills

- Embedded Platform
- **Microcontroller's**
 - RASPBERRY PI
 - BEAGLEBONE BLACK
 - 8051
 - Arduino
 - **Other Hardware**
 - PROGRAMMABLE LOGIC CONTROLLER'S (PLC)
 - Sim900 GSM Modem
 - RFID reader
 - **Communication Protocol's**
 - RS-232, I2C, SPI, MODBUS ASCII

Programming C, C++, PYTHON, **SQL**, git

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

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.

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.

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**.

Personal Details

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|-------------------|-----------------------------|
| 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 |