

# Vignesh Sridharan

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## CAREER OBJECTIVE

Seeking for position of Embedded Software Engineer in your organization where I can apply my skills and experience towards goals of the organization and advancement of my professional carrier.

## EXPERIENCE

- I am working as Embedded software Engineer for 3 years in Data Patterns Pvt Ltd.

## SKILLS

### *Coding Skills:*

- Programming Languages: Working with C and VC++;
- Developed firmware for system with PPC 1022 Processor on Linux OS with ELDK
- Developed firmware for system with Atmel AT32UC3 with Atmel Studio 7.0
- Developed GUI application with VC++ for windows.
- Developed Linux Driver for Accessing FPGA through PCI and handling MSI interrupt.
- Familiar with Pthreads, Sockets and Serial Ports in Linux and writing multithread applications.
- Have written Wrapper Class for Sockets in C++.
- Written Portable Wrappers for controlling FPGA, ADC, DAC, IO-Expanders, Serial Ports.
- Worked with I2C, SPI, UART, I2S, UDP and TCP Protocols

### *Documentation and Presentation Skills:*

- Preparation of Preliminary Software Design, SRS, SDD and ATP documents.
- Presentation of the above documents to Design Review Board and Customer.

### *Tools and IDE:*

- Sublime Text , Atmel Studio, Visual Studio, GIT, MATLAB (FDA tool)
- OpenOffice, Microsoft Office, Microsoft Visio

## PROJECT EXPERIENCE

### VHF Homing System

**Brief Description:** The VHF Homing system is part of ASW system that is used for locating sonobuoys deployed at sea. Homing System has Homing Receiver, Homing Control Unit and RF Front end.

**Role of Software:**

In Homing Receiver, the Firmware does the following tasks

- Initialization and Built in Test
- Command Processing on Ethernet (UDP) and Serial Interfaces
- System monitoring and Data Logging

In Homing Control unit, the Firmware does the following tasks,

- Initialization of on board peripherals and RF Front End
- Perform Built in Test
- Process Bezel Key Inputs

### VHF Receiver

**Brief Description:** The VHF Receiver is also part of the same ASW system that receives acoustic data from eight sonobuoys simultaneously. VHF Receiver has, Main Receiver and RF Pre-Amplifier.

**Role of Software:**

Similar to Homing Receiver Firmware with additional tasks,

- Recording of Eight channel Audio in WAV format
- Replay of all Eight channel Audio simultaneously

### Sonobuoy Positioning System (SBPS)

**Brief Description:** The SBPS is designed to locate 32 sonobuoys simultaneously deployed at sea using phase interferometry. SBPS has Sonobuoy Receiver and RF Pre-Amplifier.

**Role of Software:**

In Similar to VHF Receiver, this firmware does the following tasks

- Phase Calibration
- Estimation of Angle of Arrival
- Estimation of Sonobuoy Location

## PROFESSIONAL QUALIFICATIONS

- BE in Electronics and communication engineering from Dhanalakshmi College of Engineering, Chennai with 7.8 CGPA in 2016.
- Plus Two(HS) from Zion Matric Higher Secondary School Chennai, with 91.5 % in 2012
- 10th(SSLIC) from Neelan Matriculation school Chennai, with 89.8 % in 2010.

## JOB RESPONSIBILITY

- Preparation and Presentation of Preliminary Software Design to customer.
- SRS and SDD and ATP preparation
- Implementation of Design (Coding)
- Board level and System level Testing
- System Integration at customer site
- Software Bundle Preparation and CI Release.

## CURRENT ORGANIZATION DETAILS

Company	Data patterns India Pvt Ltd (Indus Teqsite Pvt Ltd).
Location	SIPCOT IT Park Seruseri, Chennai.
Role	Embedded Software Engineer
Date of Joining	April – 2017 (3 years)

## SOFT SKILLS

- Team Player.
- Self motivated, posses willingness to learn and teach.
- Proficient in English and Tamil languages.

## DECLARATION

I hereby declare that the above information furnished above is true to the best of my knowledge.

Place: Chennai

Date:

Vignesh S