**VIVEKKUMAR SHIVHARE**

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| **CAREER OBJECTIVE** |

Looking for a responsible and challenging position in the area of embedded development or software development with opportunities to enrich my knowledge, experience and skills while contributing my best towards the profitability of the organization.

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| **PROFESSIONAL SNAPSHOT** |

* A software development professional with 4+ years of experience.
* Graduated from Govt. Engg. College, Modasa perusing Electronics & Communication degree course in May-2015
* Attended 6 months training program for advance embedded systems from June 2015 to Dec 2015 at Vector India, Bangalore.
* Got opportunity to be known as Mindtree-mind from Jan 2016 to May 2018 and then got engaged with Pathpartner family for tenure of June 2018 to Sept 2019.
* Joined Thomson Reuters as Senior Software developer in Sept 2019, and ever since working in TR.
* Having knowledge of C, C++, Embedded systems, Application development, Shell scripting, and beginner level Bluetooth.

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| **TECHNICAL SKILLS** |

* **Operating system** : Linux
* **Languages** : C, C++, Linear Data Structure, Embedded C
* **Scripting** : Shell
* **Tools** : GCC, GDB, Keil, Segger XIDE, Sublime, Eclipse, Git, Jira, Proteus, Confluence, BitBucket, Jenkins, ROBOTAF.

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| **WORK EXPERIENCE** |

**1. Price Server developer - Sept 2019 tillPresent date**

**Description:** Price server is group of applications running on linux server in back-end of product named Thomson1, which(T1) provides different sort of market data to different users as per their requirement & subscription.

**Responsibilities:**

* Out of all the application I am owning 2 applications.
* First, I own application which takes care of recovery of price server in case of network failure.
* I implemented a replay tool, to replay data in original captured rate or at desired rate, to test various price server application.
* Implemented logic to change the properties of applications on the fly.

**Environment:** RHEL, C, C++

**2. Decawave** - **June 2018 to Sept 2019**

**Description:**Decawave is solution provider for indoor real time location, Which can give precise location of object up to 10cm by using UWB technology.

**Responsibilities:**

**TOF Technique for Indoor Navigation - June 2018 to October 2018**

Worked on design and development of algorithms which find range values between anchors and tag using (Time of flight )TOF technique, there after find co-ordinates of tag using these range values and trilateration algorithm.

**PDOA Technique for Indoor Navigation - October 2018 to December 2018**

Worked on design and development of algorithms which finds co-ordinates of tag. Called PDOA(Phase difference of arrival) technique.

**Board bring up & App development for PDOA tag - Jan 2019**

Worked as bsp developer to bring up various peripheral of DW10001 kit which uses nrf52840 controller. After bringing up uart, implemented various tasks such as control task to execute commands given by user through uart and flush task to print out the output of command to console.

Implemented test application which will test all the peripherals sequentially and give you result whether device is up to date or not with all the peripherals up and running.

**TDOA+TOF Technique for Indoor Navigation - Feb 2019 to April 2019**

Written the application code for TDOA+TOF techniques to perform ranging and find co-ordinates of tag. Designed TDOA+TOF application, developed algorithm and written code for it.

**TDOA Technique for Indoor Navigation - March 2019 to till date**

Written the auto\_sitesurvey library code which will behave as intermediate layer between DW1000 drivers and end application.

Using this Library auto\_sitesurvey, written application called sitesurvey which will be able to find co-ordinates of anchors which are available in premises automatically. Which will be used for TDOA technique to find co-ordinates of tag in indoor enviroment.

Currently working on this application only.

**Environment:** nrf523xx, gdb, linux, mynewt, XIDE, Eclipse

**3. SenCommBtDev - September 2017 to March 2018**

**Description :**SenComBtDev is manufacturer of Bluetooth products such as Bluetooth speakers, Bluetooth Dongle, Bluetooth Headphone etc. It is more commonly known as Senheiser.

**SenCommBtDev Dongle Developer - September 2017 to February 2018**

As Bluetooth application developer I was working on Bluetooth Dongle which make any device as Bluetooth compatible. Major responsibility is to fix the defects which are being generated by end user in product which is already in market and daily interacting with client by attending status meetings and discussion.

**SenCommBtDev Headphone Developer - February 2018 to March 2018**

Added endpoint for gaming sound to make dongle compatible with Yeager gaming headset.

**Environment:** Bluetooth, C Language, CSR chipset, Capricorn platform.

**4**. **Veritas - March 2017 to August 2017**

**Description :** Veritas Netbackupis an enterprise-level backup and recovery suite. It provides cross-platform backup functionality to a large variety of Windows, UNIX and Linux operating systems.

**NetBackup:**

* Code changes for handling native package installation for client and for server in Linux Redhat.
* Identify the changes required in various installation scripts to do fully non interactive installation using native commands to support mass installation. No any installation script will be called separately to install NBU.

**Environment:** Linux Rhel, Hp-Ux, Shell scripting

**5. US Marvell BT-Dev - August 2016 to February 2017.**

**Description :** Developed automated testing tools for BLE GATT profile.

**Responsibilities:**

* Have worked with Bluetooth Protocol suite. Tweaked the PTS dll to directly communicate with the BLE app using sockets for testing.
* Made the testing using PTS, entirely automated, by converting the PTS dialogue box into commands and send over socket to the BT app.
* Was able to qualify both GATT server and client using the PTS automation.

**Environment:** Marvell LE stack and Application on Linux.

**6. RFID based library automization - July 2014 to may 2015**

**Description:** This was academic project. As we know library operations are very boring for members and librarian as well e.g finding, lending, keep entries and records etc. So we developed a system which perform all these operations automatically. To do so we used RFID module which was placed on every book , which radiates RF signal and these signals are detected at receiver(librarian desk)so that librarian can easily check availability and exact location of books.

**Responsibilities:** Coding, Hardware Interfacing, Testing & Presenting.

**Environment:** 8051 controller, Keil, C.

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| **PROFESSIONAL TRAINING & SEMINAR** |

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| **Training/Seminar** | **Duration** | **Year** |
| Training on C, Embedded C, C++, Linux, TCP/IP &Microcontroller at Vector India. | 6 Months | 2015 |
| Bluetooth Training | 1 Month | 2016 |
| Workshop on Robo Soccer | 2 Days | 2013 |

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| **EDUCATIONAL QUALIFICATIONS** |

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| **COURSE** | **SPECIALISATION** | **YEAR** | **INSTITUTE** | **BOARD/UNIV** | **PERCENTAGE** |
| B. E. | Electronics &Communication Engineering | 2015 | Government Engineering College, Modasa. | Gujarat Technological University | 73.6% |
| 12th | Science Stream | 2011 | N.M.V.V | G.H.S.E.B | 70.67% |
| 10th | SSC | 2009 | N.M.V.V | G.S.E.B | 88.15% |

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| **ACHIEVEMENTS & EXTRA CURRICULAR ACTIVITIES** |

* Organized Group discussion competition in College.
* Stage singer and Guitarist with experience.
* Time Magazine's Person of the Year - 2006

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| **PERSONAL INFORMATION** |

Name : Vivekkumar Shivhare

Mobile No : +91 7411731128

Email : vivekshivhare94@gmail.com

Date of Birth : 24th July 1994

Sex : Male

Marital Status : Single

Nationality : Indian

Hobbies : Reading, Playing Guitar, Singing, Listening music, Swimming, Running, Trekking, Writing, Travelling

Languages : English, Hindi, Gujarati

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| **DECLARATION** |

I, Vivekkumar Shivhare, hereby declare that the above-mentioned information is correct up to my knowledge and bear the responsibility for the correctness of the above-mentioned particulars.

**Place : Bangalore, India**

**Date :15thAug 2020**