SUSHANTH K MURTHY
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Objective:

To gain a dynamic and challenging role in the area of Embedded System that will offer me the best opportunity for further development of my abilities, skills and knowledge in an established firm with long-term career growth possibilities.

Profile:

- ❖ **5 months** internship at **CORI(R&D) Lab, PESU** Bangalore in July to Nov 2015
- ❖ Good at understanding programming, coding, integration and Documentations.
- ❖ Good knowledge in Embedded C, Microcontroller, Interfacing with hardware devices, and Networking.
- ❖ Capability in handling multiple priorities with a bias for action and a genuine interest in personal & professional development.
- ❖ Adept in grasping new concepts quickly and utilizing the same in a productive manner.
- ❖ Possess sound analytical, interpersonal, communication, coordination & people management skills.

Technical Expertise:

- ❖ **Programming Language :** C **,**Embedded C, Python, Shell Scripting, Java
- ❖ **Hardware:** 8/32 –bit Embedded Controllers, Architecture: 8051, Atmega 16
- ❖ **Software: Linux OS,**AVR Studio, MS Office (Word, Excel, PowerPoint, Visio)
- ❖ **Peripheral devices:** IO, I2C, UART, and Zigbee.
- ❖ **Linux :** Installation both Ubuntu and Centos
    - o Administration : Partition and Creating a file system and mounting
    - o User management and file system management
    - o Red hat Virtualization, Monitoring of services, Providing support during any issue
    - o Installation and service of APACHE, DNS,SSH, APCHE webserver, DNS webserver, blade server

Activities:
- ❖ Participated in IOT ideation Boot Camp Workshop conducted by IISC Bangalore at 2015
- ❖ Participated in National Conference on SUMMIT conducted by PESU Bangalore at 2015
- ❖ Participated in Robotics Workshop conducted by Li2 Innovations
- ❖ Interested in online courses on Robotics and Business

Projects:

1. "Wireless projector interfacing using Raspberry Pi " At CORI lab PESU Bangalore

Description: Linux Platform under GCC complier. Socket programming Using C language, GUI Design Using GTK, RFB Protocol Implementations

The aim of this project is Laptops are generally connected to projectors using either VGA or HDMI cable. It is necessary to place laptop and projector very close to each other due to shortage of cables for their connectivity. This problem can be eliminated by utilizing Wi-Fi facility that is present in the current laptop. Low-cost and tiny Raspberry Pi can be used at the projector side instead of expensive laptop. This solves short length of cable problem and flexibility of positioning laptop and projector comfortably within Wi-Fi zone.

2. "Design & Development of FOC Pay-in / Pay-out System for AUV" at CORI Lab PESU Bangalore

Description: Language: Embedded C, Complier: AVR studio

Implement of the pay in /pay out system for autonomous under water vehicle (AUV) for reel in and reel out of FOC (fiber optic cable) which connect to the AUV controlling by the handle unit.

3. "Design & Development of Sun Tracking System" at CORI Lab PESU Bangalore

Description: *Language: Embedded C, Platform: AVR studio*

Solar Tracking System is a device for orienting a solar panel or concentrating a solar reflector towards the sun. Concentrators, especially in solar cell applications, require a high degree of accuracy to ensure that the concentrated sunlight is directed precisely to the powered device. Polar axis tracking system is design is selected to track the sun.

4. "EMBEDDED DESIGN FOR POWER MONITORING AND OPTIMIZATION" completed in **JSSATE**, BANGALORE

Description: Language: C and Complier AVR studio

This project aim is to reducing the power crisis up to certain extends by embedded approach. It monitors the surrounding environment and electrical conditions depending on which it controls the operation on the luminesce of light and speed of fan.

Education:

- ❖ Master of Technology **(M.Tech), PESIT** Bangalore, **VTU** University **2014**-Present
  Branch: Intelligent system; **GPA: 64.85%**
- ❖ Bachelor of Engineering (B.E), **JSSATE** Bangalore, **VTU** University-**2012**
  Branch: **Instrumentation Technology**; **GPA: 60%**

Hobbies:

- ❖ Reading Newspaper, Listening music, playing Cricket etc..
- ❖ Interested in Playing Guitar
- ❖ Interested in playing Rubik's cube

Personal Information:

Name   : Sushanth K Murthy
Date of Birth   : 29th April 1991
Gender   : Male
Marital status   : Single
Nationality   : Indian
Languages known   : English, Kannada Tamil, Telugu and Hindi