**Pramod Srivatsa Krishna Murthy**

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**278/B, West Cross 4, Uttaradhi Mutt Road, Old Agrahar, MYSORE – 570004, Karnataka, INDIA**

Seeking challenging assignments in **IT/Embedded Systems/Electronics/Electricals** that would facilitate the maximum utilization and application of my broad skills and expertise in making a positive difference to the organisation & Market

**PRECIS**

Dedicated and versatile professional offering over 1 year 4 month of experience as Embedded Engineer coupled with a **Masters Degree in Embedded Microelectronics & Wireless Systems from Coventry University, Coventry, West Midlands, U K**

* Expert in integration & enhancement of cutting-edge analytical platforms with eye to suggest ways to increase customer efficiency and capability
* Ability to work in full collaboration with end users in enriching, analysing and displaying all-source intelligence data to derive actionable intelligence value for tactical and operational users
* Skilled in identifying and collecting requirements for any projects and provide an extendable ideas for the said to obtain more precise results for the same
* Self-motivated, innovative and able to work alone as well as in a team-oriented environment demonstrating a high degree of problem solving ability and excellent written and verbal skills
* Proven records of producing quality intelligence report and briefings by interacting constantly with supervisors and colleagues to understand requirements and constraints of the task objectives
* Keen to work in various phases of system lifecycle, including applied research, requirements generation, design, implementation, testing, integration, installation and documentation
* Profound knowledge of Embedded C, C++, Assembly Language & some basics of JAVA
* Keeps abreast with changes in market trends to constantly improve existing technical levels to achieve best in any industry working upon
* An enterprising leader with proven ability to motivate personnel towards achieving organisational objectives and adherence to industry’s best practices
* Extensive background in Digital Signal Processing, Wireless Communication Systems, Embedded Operating System, Embedded Electronics, Electricals & Electronic Systems also broad knowledge in hardware’s for the same

**TECHNICAL SUMMARY**

**Tools & utilities:**  MATLAB IDE, MATLAB 2007, LabVIEW 2010, UML Studio, AutoCAD, Electronic Circuit Maker, Code Composer Studio V3 & Eagle Software, Eclipse

**Languages:** Embedded C, C++, Shell Scripting, Assembly Language.

**Applications:**  MS Office

**Operating Systems:** Windows 2000/ XP, Windows 7, 8, Fedora and Ubuntu

**CAREER SUMMARY**

**Embedded Engineer,** Technovations Software Private Limited, affiliated to Smartrove Inc, USA. , Mysore

(Jul’13 – Till date)

* Involved in collecting business requirement documents for the development of test bed and customising the system for the same
* Gathered and analysed clients’ business requirements and recommended solutions / suggestions to resolve any issue
* Developed cost effective solutions with value-added features and flexibility to meet current and future needs
* Co-ordinated with clients to convert requirements to functional flow
* Worked in close collaborations with clients / users to determine and resolve conflicts / issues raised by them ensuring adherence to time lines

**PROJECTS HANDLED**

**Professional:**

**#1:**

**Title: Test Bed for Wireless Mesh Node (Initial)**

**Client:** Smartrove Inc. (Internal)

**Duration:** Oct’ 13 - ongoing

**Role:** Team Member

**Description:** This initial test bed involved building of test environment for wireless nodes by setting up all required sources & building (Make) them on Linux OS (Fedora-8 & Ubuntu Server 12.04 LTS). Main focus on setting up SDK for different environment, Makefile, testing different tools like hostapd, Freeradius, iperf etc on Linux based OS (Raspberry Pi & Quantenna devices) & also involved in maintaining SVN server. The project also involves debugging the built image by flashing on the test device & make necessarily changes in the configuration files as required for the devices performance along with feature changes to the GUI of the device. Automation being one of the most credible requirement for this project, I am also involved in the automation of the build procedures using shell scripting.

**Research Experience:**

**Research Volunteer (part-time),** Vidya Vikas Institute of Engineering & Technology, India.(Mar'2013 – till date)

* Gained good exposure to different types of antennas with in-depth knowledge on their working features & their broad uses.
* Conducted a survey on present stealth technologies available in defence with reference to aircraft body and documented the same for research Survey paper with its presentation in International Journal
* Worked on a project that determines the behaviour of Microwave when incident on a multidisciplinary fabricated surface & thus commenting on the RCS with a relation between them.
* Worked on few Sw/Hw related projects which includes a compactable Weather monitoring system, a software application was developed for the same by my team.
* Worked on a project involving the analysis of the loss tangent effect on Antenna gain with microstrip antenna

At present, I along with my team are working on a project that shows how the reflected microwave is affected when incident micro wave on a test subject is electrically charged.We are further awaiting a University grant to continue our research on Antenna.

**Academic:**

**#2:**

**Title: Car Park Space Monitoring**

**Client:** Coventry University

**Duration:** Jul’ 11 – Jan’ 12 (During Masters)

**Role:** Team Member

**Description:** The project aimed atDesigning, Developing and evaluation of a Car Park Space Monitoring System. It also included a brief survey of present types of technologies being used at car parking facilities

**Responsibilities & Skills acquired:**

* Gained understanding on working of broad types of technologies being used at parking facilities with its pros & cons
* Based on the analysis on current systems and their pros & cons designed an optimum system that facilitates the drivers with an exact free space location in the arena to park their cars with ease
* Implemented and tested the design by hardware prototype using hall effect sensor
* Thorough knowledge on hardware especially IC’s and electronic spares were gained along with hands on experience on MATLAB IDE, MATLAB 2007, LabVIEW 2010 were obtained

**#3:**

**Title: Study, Design & Development of TMS320F28035 Embedded System Board**

**Client:** Vidya Vikas Institute of Engineering & Technology & KPTCL

**Duration:** Jan’ 10 – Jun’ 10 (During Bachelors)

**Role:** Team Member

**Description:** This project involved designing & implementing in hardware of a Embedded System Board using TMS320F28035 DSP Processor to provide a system for learning to use a new microprocessor

**Responsibilities & Skills acquired:**

* Acquisition of required data to design a board & other electronic peripherals to suit the TMS320F28035 DSP processor as to meet the project deliverables
* Designed and developed a hardware as proposed & coded the board as to implement the energy meter functionality
* Gained lucid knowledge on the hardware used, designing procedures and extensive grip on software platforms such as Eagle (for PCB layout), Code Composer Studio V3 (windows based debugger) were grasped

**ACADEMIA & TRANINGS**

* **M Sc** **in** **Embedded Microelectronics & Wireless Systems** from Coventry University, Coventry, West Midlands, UK in 2012 with Merit
* **B E in Electrical & Electronics Engineering** from Vidya Vikas Institute of Engineering & Technology Mysore, under Visvesvaraya Technological University in 2010 with First Class
* **Pre-Degree** from Karnataka PU Board in 2006
* Trained on **LabVIEW**
* Trained on **MATLAB IDE, MATLAB**
* Have undergone industrial study training at SRS Hootagalli substation in Mysore, India for a period of one week to familiarize about the equipments and the handling of a substation.
* Have attended one day seminar on ‘Renewable energy sources’ held at National Institute of Technology, Mysore, India.

**PUBLICATIONS**

* Pramod Srivatsa K and Prasanna P ‘*Query Based Software Application for Weather Monitoring System*’ IJCA Trans. J. *NCRTCA* pp. 48-53. 2013.
* Prasanna P and Pramod Srivatsa K *‘Software Application for E-Health Monitoring System’* IOSR Trans. J. Vol. 7 Issue 2 pp. 46-50 July 2013
* Prasanna P and Pramod Srivatsa K *‘Promising Stealth Technology Protocols in Defence’* IJESI Trans. J. Vol.2-Issue-10(Version 1) Oct 2013
* Prasanna P, Pramod Srivatsa K and Dr. Bindu Anil Thomas *‘A New Conceptual Algorithm For Adaptive Route Changing in Urban Environments’*  IJRET Trans. J. Vol.2 Issue-10 pp. 557-560 Oct 2013.
* Pramod Srivatsa K and Prasanna P *‘A Study of Reflected Micro Wave Behaviour on Multidisciplinary Fabricated Surface & its Relation with RCS’* IEEE Xplore Trans. J. In press
* Prasanna P, Pramod Srivatsa K and Dr. Bindu Anil Thomas ‘*Analysis of Loss Tangent on Microstrip Patch Antenna’* IJASER Trans. J. In press

**EXTRAMURAL ATTAINMENTS**

* Experience in tutoring higher schooling & pre-university students, which was carried as a time being hobby for two years. In these years tutoring of students included teaching them basics of Mathematics, Physics & Basics of Electronics
* Student member of Indian society of Electrical and Electronics Engineers. This actually gave the access to its official website, through which many technical Journals & technological advancements were gained by me

**PERSONAL VITAE**

**Date of Birth:** 04th April, 1988

**Linguistic Proficiency:** English, Hindi, Kannada & Telugu

**Interest:** Music, Movies, Watching Tech gigs, Numismatics

**References:** Furnished upon request

**Place: Mysore, INDIA Signature:**

***(Pramod Srivatsa. K)***