**ANUDEEP VASIREDDY**

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**Objective**

Seeking a challenging position in an Organization where my knowledge & skills will be utilized for the

mutual benefit and offers opportunities with good prospects of growth and career development.

**Summary**

* 2 years of experience in Embedded C programming, MATLAB/Simulink, CAN simulations, RTOS.
* Handled 343 academic projects and 7 industrial projects.
* Highly motivated, quick-learner, and adaptable.
* Having strong technical, communication, time management and interpersonal skills andability to work independently as well as part of a team.

**Professional Experience**

1. **Company:**Vyas Informatica (2011 Jan- 2012 Aug)- Full Time.

**Since Aug 2014 working as a Part time employee with Vyas Informatic**

**Responsibilities:**

* Involved in designing application based circuit.
* Involved in coding.
* Verify and understand the problems in circuit design.
* Participated in launch of new products.

**Academic Projects**

|  |  |  |  |
| --- | --- | --- | --- |
| **No of Projects** | **Domain** | **Description** |  |
|  |  |  |  |
| 56 | Wireless communication | Encoding, decoding | |
|  |  |  |  |
| 11 | Touch Screen | Its working and celebrating | |
|  |  |  |  |
| 3 | RTC | Functioning and redesigning | |
|  |  |  |  |
| 36 | Robotics | Vehicle based robes | |
|  |  |  |  |
| 18 | RFID | Working and designing | |
|  |  |  |  |
| 45 | GSM | Working and application based | |
|  |  |  |  |

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| --- | --- | --- | --- | --- | --- |
|  | 12 |  | Gesture | Accelerometer and Gyro | |
|  |  |  |  |  |  |
|  | 135 |  | General | Basic electronics | |
|  |  |  |  |  |  |
|  | 11 |  | Communication protocols | CAN,I2CTCP/IP | |
|  |  |  |  |  |  |
|  | 2 |  | Cloud computing | Mbed, LPC1768 | |
|  |  |  |  |  |  |
|  | 6 |  | Fingerprint sensor | Working and configuring | |
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|  |  |  | | |  |
| **Title** |  | **Design and Development of EFI System for a Carburetor Based 150cc Single** | | | |
|  |  | **Cylinder engine** | |  |  |
|  |  |  | | |  |
| **My Role** |  | Study on existing systems, Generating Hypothetical MAPS, writing an embedded | | | |
|  |  | C code for the required hard ware and testing for cranking, warm-up stages | | | |
|  |  |  | | |  |
| **Issues Faced** | **&** | study the existing EFI, converting multi cylinder EFI system to single cylinder EFI | | | |
| **resolved** |  | system and test it on the hardware | |  |  |
|  |  |  | |  |  |
| **Tools used** |  | MATLAB/SIMULINK, Arduino, Tuner studio | |  |  |
|  |  |  | |  |  |
|  |  |  | |  |  |
| **Title** |  | **ECU Software Testing Automation** | |  |  |
|  |  |  | | |  |
| **My Role** |  | ECU remapping, Coding, testing and development of ECU | | | |
|  |  |  | | |  |
| **Issues Faced** | **&** | Study the existing IEMS, remap the pin according to the requirement, CAN | | | |
| **resolved** |  | programming, I2C programming and testing in the hardware. | | | |
|  |  |  | |  |  |
| **Tools used** |  | MPLAB, Vehicle analyzer, Vector | |  |  |
|  |  |  | | |  |
|  |  |  | | |  |
| **Title** |  | **Modeling and Analysis of a active and Passive Suspension System** | | | |
|  |  |  | | |  |
| **My Role** |  | Study of the existing system, Mathematical modeling and simulation in | | | |
|  |  | MATLAB/SIMULINK. | |  |  |
|  |  |  | | |  |
| **Issues Faced** | **&** | Lots of research is carried out, PID calibration is carried out and make the system | | | |
| **resolved** |  | more stable. | |  |  |
|  |  |  | |  |  |
| **Tools used** |  | MATLAB/SIMULINK | |  |  |
|  |  |  | | |  |
|  |  |  | | | |
| **Title** |  | **Automatic Vehicle Accident Detection and Remote Alarm System** | | | |
|  |  |  | | | |
| **My Role** |  | Study of the existing system, Mathematical modeling and simulation | | | |
|  |  |  | | | |
| **Issues Faced** | **&** | Studied and simulation of different sensors and target based simulation for the | | | |
| **resolved** |  | required application | |  |  |
|  |  |  | |  |  |
| **Tools used** |  | VxWorkes, Tornado, | |  |  |
|  |  |  |  |  |  |

|  |  |  |
| --- | --- | --- |
| **Title** |  | **Braking system for 4 wheelers** |
|  |  |  |
| **My Role** |  | Designing the circuit, choosing according to the platform to be used for coding |
|  |  |  |
| **Issues Faced** | **&** | Interfacing four subsystems ABS,EBS,EBA and CBS into a single braking system |
| **resolved** |  |  |
|  |  |  |
| **Tools used** |  | Canoe 7.1, embedded-c. |
|  |  |  |
|  |  |  |
| **Title** |  | **Driver assistant system at the blind spot areas in a vehicle** |
|  |  |  |
| **My Role** |  | Study of the existing system, Mathematical modeling and simulation |
|  |  |  |
| **Issues Faced** | **&** | Studied and simulation of different sensors and target based simulation for the |
| **resolved** |  | required application |
|  |  |  |
| **Tools used** |  | VxWorkes, Tornado, |
|  |  |  |
|  |  |  |
| **Title** |  | **Design and development of heading direction control in Autopilot System for** |
|  |  | **Micro air vehicle** |
|  |  |  |
| **My Role** |  | Modifying code, hardware designing, testing and development of MAV |
|  |  |  |
| **Issues Faced** | **&** | During the mission the head direction of MAV was unstable, Landing was rough, |
| **resolved** |  | and Battery was getting drained very fast. The Stability of heading direction of |
|  |  | MAV was attained by feeding PID values, With help of sonar the landing was |
|  |  | smooth |
|  |  |  |
| **Tools used** |  | Mission Planer, Ardupilot software, 2.4Gh RF |
|  |  |  |

**Skill Set**

**Operating Systems :** Windows XP, Windows Vista, Windows 7, Linux.

**Languages** **:** Embedded C, Embedded C++

**Tools** **:** Excel, word, PowerPoint.

**Software** **:** RRRT, Microsoft Visual Studio 2008, Keil uVision-4, EDraw

max, MATLAB and Simulink, Vx Works, CANoe, Tornado2.2, MPLAB,

Mission Planner, Arduino, MBed, Xilinx ISE, Xilinx EDK, Xilinx System

Generator, LINUxRTOS, lab vew, MPlab, PLC, ANSIS 12.1

**Hardware** **:** 89c51, 89c52, 89s51, atmega8, atmega168, atmega328, s3c2440, LPC2148,

LPC1768

**Certifications**

* Advanced Diploma in Embedded Systems.
* Embedded Systems in Linux.

**Educational Qualification**

* Masters in Real Time Embedded Systems from M.S.Ramaiah School of Advanced Studies, Bangalore (2014)
* Bachelors in Electronics and Communication Engineering from Vasavi College of Engineering, Hyderabad (2011)
* Intermediate M.P.C in Sre chaitanya, Vijayawada (2006)
* 10th in Nirmal Hrudhi High School, Khammam(2004)

**Personal Dossier**

Date of Birth : 25th August 1989

Hobbies : Movies, Books, Horseback riding, Archery, Volley ball, Swimming,

Badminton and Chess

Languages Known : English, Hindi and Telugu.

References : Available on request.

(ANUDEEP VASIREDDY)

Place: Bangalore