**RESUME**

**A.SANDEEP**

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| Profile Summary |

2.4 years of hands-on technical acumen in developing embedded Firmware for various micro controllers and developing Linux BSP.

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| Experience Summary |

* Worked as an **“Embedded Software Engineer”** at **Silvan Innovation Labs Pvt Ltd,** Bangalore from February 16th 2015 to April 25th 2017.
* **Votary Softech Solutions Pvt Ltd(April-2107 to Present)**

As per Votary Standards, We have qualified for 6 week training program on Linux Environment, BSP (Board Support Package), ADB (Android Debug Bridge) and Python. I enhanced my skill set through this training program.

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| Work Summary |

* Driver development for PWM, Timers, LCD ,RS232
* Hardware schematic analysis, hardware debugging through oscilloscope
* Experience in understanding datasheets and developing software

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| Skills |

* Strong knowledge on C ,Embedded C
* Strong knowledge on 8bit ,16bit and 32bit microcontrollers
* Experience in Embedded Linux Porting and testing for Arm9, TI (am335) processors
* Porting RS232, L293D drivers with AT89S52 and LPC2148 Micro controller
* Experience with KEILIDE
* Experience on Embedded Boot Loader Development for real time embedded devices.
* Knowledge in Linux Programming Essentials
* Basic Knowledge on Linux Kernel internals and Device drivers

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| Educational Qualification |

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| B.Tech. | Nishitha college of engineering and technology JNTUH, 2014, 67.8% |
| Intermediate | Sri Chaitanya Jr. kalasala, A.P-HYD, 2010, 84.4% |
| SSC | Kendriya Vidyalaya Sangatan, A.P-HYD, 2008, 61.4% |

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| Project Summary |

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| **Project Name** | **LINUX PORTING ON S3C2440 CUSTOM HARDWARE** |
| **Team Size** | 3 Members |
| **Description** | Porting Kernel to ARM based processor S3C2440. The core of the work is to bring up the board and customize the kernel as per customer hardware requirement. I have validated I2C, ADC driver and fixed issues in 2.6.32 kernel. |
| **Role & Contribution** | * Board Bring-up activities * Kernel optimization and minimal root filesystem * Achieved boot up optimization in 7 sec * Validated onboard EEPROM |
| **Tools & Technologies** | Linux Kernel 2.6.32, make, c-tags, cscope, buildroot |

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| **Project Name** | **Home Appliances Controlling using Android Mobile via Bluetooth.** |
| **Team Size** | 3 members |
| **Description** | This project is a fine combination of Android mobile technology and embedded system. User can control Home appliances using Android mobile. An application should be installed on his/her Android mobile handset to control various home appliances. User can send commands using that application. Wireless controlling technique used in this project is Bluetooth technology. This project consists of a Bluetooth receiver. This Bluetooth device is connected to the circuit which has a decoder. This decoder sends code for respective command sent by user. Then the respective device connected to the circuit will be turned on or off depending on the command given. |
| **Role & Contribution** | * Interfaced Bluetooth module HC-05 & tested serial data received from it. * Developed low level driver for LCD 2x16 * Developed code for interfacing all those modules with ARDUINO UNO (ATMEGA 328P) |
| **Tools & Technologies** | ARDUINO IDE |

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| **Project Name** | **Password Based Door Lock System Using 8051 Micro-Controller** |
| **Team Size** | 3 Members |
| **Description** | This system demonstrates a circuit named Password based Door Lock System wherein once the correct code or password is entered, the door is opened and the concerned person is allowed access to the secured area. After some time, the door would close. Again if another person arrives and fails to enter the correct password, the door would remain closed, denying access to the person. |
| **Role & Contribution** | * Developed low level driver for LCD 2x16 and interfaced with GPIO pins * Interfaced 4x3 Matrix keypad with GPIO pins * Interfaced DC-motor using L293D-IC |
| **Tools & Technologies** | MDK-Keil microvision4, AT89S52 |

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| Personal Profile |

Name: A.SANDEEP

Father’s name: A.RAVINDER

Date of Birth: 07/07/1991

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| Declaration: |

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

**Place**: Hyderabad