**ANUSHA SAMANU** samanu.anusha69@gmail.com

Contact no-+91 – 9666332738

OBJECTIVE:

Looking for a challenging position of embedded developer in a technological environment where I can utilize my knowledge to the fullest extent and skills into practice and create a winning team through hard work and dedication.

EXPERIENCE SUMMARY:

* **5 years** of experience in Software Development for **Embedded Linux, Windows and Nucleus (RTOS) System Programming.**
* 3 years of experience in development of automotive infotainment system.
* Proficient in C/C++ languages.
* Hands-on experience in **DRM Radio Field** testing and DSP **Radio Sound tuning**.
* Experience in **Software development on Linux, Windows and RTOS.**
* Experience in **Infotainment Radio software development** from scratch.
* Experienced in FM, AM, RDS, DAB, DRM Radios software development including requirement analysis, design, coding and debugging.
* Experienced on working NXP DSPs Hero, Dirana3, Saturn Tuner, advanced NXP Software Defined Radio Mercury, Merlin and Titan.
* Worked on Telechips TCC8131 advance processors.
* Worked on protocols like SPI, I2C, UART, I2S etc.
* Knowledge on **Linux kernel and Linux Device Driver**.
* Highly motivated with the ability to work effectively in teams as well as independently.
* Excellent team player with strong interpersonal and communication skills.

EDUCATIONAL QUALIFICATION:

* Have completed Bachelor's degree in ECE from JNTU, Andhra Pradesh, with 81.60% in 2012.
* Have completed Intermediate in MPC from Board of Intermediate Education, with 93.8% in 2008.
* Have completed SSC from Secondary Board of Education, with 74.83% in 2006.

TECHNICAL SKILLS:

* Programming Languages: C, C++, Data structure, OOPS.
* Operating Systems: Linux, RTOS, Windows.
* System Programming – Linux system programming, socket programming .
* Kernel Development – Linux kernel programming, IPC mechanism.
* Controllers: Microcontrollers 8051, PIC, ARM.
* Assembly language -8051.
* Tools: gcc, g++, make, cmake, yocto, bitbake, QT, Metroworks codewarrior for ARM, CVD, Source Insight, Cygwin, visual studio, Keil IDE, Eclipse.
* Database: MySQL and SQLite
* Configuration Tools: SVN, Git, Gerrit, MS Visio, EA and PTC integrity.
* Scripting: Shell Scripting

WORKING EXPERIENCE:

* Working as a Technical Leader at **Hyundai** **Mobis** **R&D Center**, Hyderabad since July 2015 to present.
* Worked as an Embedded Software Developer at **Value Labs**, Hyderabad, India from May 2013 to June 2015.

TRAINING:

* 6 months of extensive class room training on **Advanced Embedded system** at **Vector India private Ltd.,** Hyderabad.
* Pursuing 4 months of class room training on **Linux** **Device Drivers** at **Veda Solutions** Hyderabad.

PROJECT SUMMARY:

**#1: Audio System:**

Audio system is equipment installed in car to provide in-vehicle entertainment and information for vehicle occupants. It consists of FM/AM, RDS, DRM, DAB, SXM, Mymusic, USB, Bluetooth connectivity, Ecall, cluster etc. It can control from the dashboard buttons, steering wheel and voice commands.

**Profile:** Technical Leader

**Team Strength: 18**

**Environment:** Nucleus (RTOS),Metrowerks for ARM Developer suite, CVD, Cygwin, make.

**Controller**: TCC 8131, NXP Hero, Dirana3 and Saturn.

**Responsibilities:**

* Handling and guiding the Radio team of Size 4 in technical aspects.
* Design and Development of Digital Radio DRM module.
* Design and Development of FM/AM, RDS and DAB modules.
* Developed advanced featured like Multiple Emergency Announcements and other frequency Announcements in DRM.
* Design and Development of Audio features implementation using Hero/Dirana3.
* Development of advanced features in audio system like Audio Mixing, Sound experience using DSP Hero.
* Merged Arkamys solution into Audio system to improve in-vehicle audio quality and enhance user experience.
* Key member in DRM Digital Radio Field testing and DSP Radio sound tuning.

**#2: Premium AVN System:**

Premium AVN system is equipment installed in car to provide in-vehicle entertainment and information for vehicle occupants. It consists of FM/AM, RDS, DRM, DAB, SXM, Mymusic, USB, Bluetooth connectivity, Navigation, Video, Ecall, cluster etc. It can control from the dashboard buttons, steering wheel and voice commands.

**Profile:** Technical Leader

**Team Strength: 10**

**Environment:** Linux, Yocto, bitbake and QT.

**Controller**: NVIDIA, NXP Mercury, Merlin and Titan.

**Responsibilities:**

* Handling and guiding the Radio team of Size 6 in technical aspects.
* Performed Requirement analysis and DRM Application design.
* Design and Development of Digital Radio DRM module.
* Design and Development of FM/AM and RDS modules
* Participated in DRM Digital Radio Field testing.

**#3: Secure Child**

SecureChild is an award (New Media Awards 2014) winning GPS based vehicle tracking and security system that helps school administrators manage their fleet operations more effectively, provides peace of mind to the parents and ensures the safety of children.

SecureChild is specifically designed for schools to track and monitor the safety of their children, as well as the driving pattern of their drivers. When a bus will arrive for pick up, or why it has still not arrived for the drop-off accounts for a major portion of the calls parents make to schools. SecureChild provides precise and immediate answers to these.

**Profile:** Embedded Software Developer**.**

**Team Strength: 12**

**Environment**: Visual Studio, MySQL and Windows.

**Responsibilities:**

* Developed TCP/IP socket platform to communicate with OBDII device.
* Developed Server application to send/receive the data from device.
* Involved in designing the database architecture for device data.
* Provide support PHP team in web application development.
* Performed unit testing with real time scenario.
* Provided support to the web development team.
* Provided support in architecture design.
* Provided support to implementation team in device installation.

**#4: Home and Industrial Automation**

Home Automation is POC, which comprises of motion sensor, Arduino kit and electric bulb. Once the motion is detected by sensor, bulb will be automatically switched ON and OFF .Even bulb can be switched ON/OFF by using Android mobile app.

In Industrial automation, sensors which are suitable for industrial machine like temperature, motion,

Accelerometer and distance etc are interfaced to Arm board and sensor data is transferred to remote server through GPRS after every 10sec. In server side data is stored into database for analysis.

**Profile:** Software Engineer**.**

**Team Strength: 2**

**Environment**: Keil IDE, Linux.

**Responsibilities:**

* Interfaced sensors and GPRS module with the Arm board.
* Written firmware for Arm board using Keil and server application using socket program.
* Interfaced sensors and Bulb with the Arduino Board.
* Written firmware for Arduino board for controlling the bulb.

ACHIEVEMENTS:

* Received Best Trainer Award from Hyundai Mobis.
* Effectively prioritized and organized workloads in a constantly changing environment to meet daily and weekly schedules.
* Commended by management on numerous occasions for the quality and consistency of my performance.
* One of the few members of my experience to be selected to conduct Technical interviews for people applying to join Value Labs.
* Positive and enthusiastic, able to communicate effectively with management at all levels in a manner insuring maximum efficiency.

PERSONAL DETATIL:

Name : Anusha Samanu

Father’s Name : Veera Prasad

Date of Birth : Aug 1st 1991

Nationality : Hindu

Marital Status : Single

Mother Tongue : Telugu

Languages Known : Telugu and English

Location : Hyderabad

I hereby declare that above all information furnished are true, complete and correct to the best of my knowledge and belief. .

**(Anusha Samanu)**