Sarath Kumar S

Chennai - 600097.

SUMMARY

Motivated System Software/ Firmware Engineer experienced with ARM Controllers, Processors, and Signal Processing. Enjoys working with the hardware teams at initial bring up and Product Readiness Workshops. Has a passion for building the software that brings hardware to life. Experience and expertise includes:

• C/C++ Programming	• Knowledge about Medical devices
• Bio Medical Signal Processing	• QT Creator and Android Studio
• Experienced in Server Management.	• Worked with ARM controllers
• Rowley cross works for ARM	• Worked in Bluetooth Stacks
• MATLAB Python	• Pixhawk Flight Controller

WORK EXPERIENCE

American Megatrends India Pvt. Ltd., Chennai   2015-Till Date
Leader in Embedded, BIOS, Mobility Solutions, Data Storage Solutions and Healthcare IT Solutions.

MegaRAC SPX:

    Project Description:

- Worked OEM projects for Artesyn and Ericsson

    Role Played:

- Fixed some bugs related to IPMI and Flasher.

B.O.L.T:

    Project Description:

- Body lifestyle Tracker – One Touch Wireless Health monitor to Measure ECG, blood pressure (BP) monitor, Blood oxygen level (SPO2), Glucose, Cholesterol Hemoglobin and Temperature from single device.

    Role Played:

- Developed firmware for Blood Pressure, ECG SPO2.
- Implemented watch dog and suicide functionality in Base Unit, Glucobin, Spirometer, ECG, SPO2 and Temperature Probe for EMC testing.

VITALS FIT LITE:

    Project Description:

- One touch health tracker monitor to ECG, SPO2, Temperature, Activity Tracker.

    Role Played:

- Developed firmware for SPO2, dry electrode ECG and Activity Tracker.
- Implemented signal processing algorithm for ECG and SPO2.
- Implemented step detection algorithm for Pedometer.
- Detected floors using barometer.

VITALS FIT:

Project Description:

- One touch health tracker monitor to ECG, SPO2, Temperature, Activity Tracker with Processor running with android.

Role Played:

- Built Uboot, System image, kernel image for vitals Fit board with Ingenic M200 processor.
- Built Uboot, System image, kernel image for vitals Fit board with Snap dragon processor.
- Developed firmware for ARM M10 controller.

EDUCATION

B.E - Electronics and Communication Engineering
Alagappa Chettiar College of Engg. & Tech., Karaikudi.

SOFTWARE

- Rowley Cross Works for ARM
- Code Composer Studio
- Qt Creator, MATLAB
- Android Studio
- MegaRAC Development Studio.

- C/C++Programming
- Python
- SVN, CVS
- Android NDK