Alankrit Srivastava

Software Engineer

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WORK EXPERIENCE

Senior Research Engineer LG Soft India (Software R&D)

03/2023 - Present Bengaluru, India

Development of dashplayer2

- Led the development of dashplayer2 in C/C++, that leverages the **Gstreamer multimedia framework** as an underlying engine to handle the multimedia playback in Linux Application Environment for the webOS25 release across RTK and SIC chipsets.
- Worked on the middleware feature development and bug-fixing of dashdemux2 element for compatibility with GStreamer version 1.24.0, ensuring transition from GStreamer 1.18.5.
- Worked on the middleware software optimization and hardening of dashplayer2 for the stable release of webOS25.
- Implemented feature enhancements and resolved critical bug fixes for dashplayer for production releases of webOS23 and webOS24
- Collaborating with cross-functional teams to achieve successful **HbbTV certification** across multiple regions, ensuring compliance with regional broadcasting standards.
- Providing **support** to **team members** in the execution of their tasks and responsibilities.
- SoC: Several Realtek (k24n, k25lp, k8hpp etc.), Mediatek(m23 etc.) and SIC (o24n, o22n etc.) chipsets.

Software Engineer

Qualcomm on Wipro payroll

10/2021 - 03/2023 Bengaluru, India

Implementation & bug-fixes of Smart-Watch Software

- Developed system software for sensor integration in wearable devices (smartwatch) based on the QC5100 Low Power Audio SoC.
- Worked on the development of BLE application software in C/C++ using **FreeRTOS**, enhancing connectivity features in smartwatches to optimize performance and user experience.
- Designed and implemented protocol interfaces, including HFP and A2DP, utilizing Google Protocol Buffers (Protobuf) for efficient data serialization and communication.
- Fixed customer critical bugs, improving overall system stability.

Junior Embedded Design Engineer

Megamic Electronics

08/2020 - 06/2021 Bengaluru, India

Firmware Development of Remote Monitoring Unit

- Developed software for proprietary Remote Monitoring Units used in photovoltaic power plants and other applications in Linux environment using C, serving clients including TATA Power, SunEdison, L&T, and others.
- Worked on the integration of multiple modules, including LCD and OLED displays and sensors, through the implementation of various communication protocols, ensuring on-time delivery to clients.
- Implemented interrupt-driven firmware modules to handle sensor data and communication protocols efficiently, minimizing latency in remote monitoring systems.
- Contributed to the development of the over-the-air solution for the RMU product and led field deployments.
- Controllers: STM32F103xx(ARM Cortex M3), STM32F40xx(ARM Cortex M4), STM32F05xx(ARM Cortex M0) etc.

CERTIFICATES

Embedded Systems Multi-Threading Interfacing – The University of Texas at Austin (11/2020 - 01/2021)

Embedded Linux and Linux Device Drivers – Tech Veda (11/2021 - 03/2022)

EDUCATION

B.Tech - Electrical & Electronics Engineering

Dr. APJ Abdul Kalam Technical University

07/2014 - 06/2018 75%

Senior Secondary Education (+2)

Mary Gardiner's Convent School (C.B.S.E.)

04/2013 - 03/2014

Secondary School (High School)

Mary Gardiner's Convent School (C.B.S.E.)

04/2011 - 03/2012 9.4 CGPA

SKILLS



LANGUAGES

English

Hindi

Full Professional Proficiency

Native or Bilingual Proficiency

87.4%