PERSONAL INFORMATION

Athul Pantheerady Kalam

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Sex Male | Date of birth 04/04/1992 | Nationality Indian

PERSONAL STATEMENT

Skilled Automotive Professional with over 10 years of experience in Linux and embedded systems, specializing in Automotive Infotainment and ADAS. Proficient in embedded software, device drivers, automotive Ethernet, AVB, SOMEIP, and QNX hypervisor. Strong foundation in Linux and object-oriented design, which facilitates the development of innovative solutions. Experienced in Agile and Scrum methodologies, successfully managing cross-functional projects globally. Highly effective in customer-facing roles with exceptional communication skills. Committed to staying updated on industry trends and passionate about automotive engineering.

JOB-RELATED SKILLS

Programming Skills	C ,C ++ ,Shell scripting ,Linux ,Python
Development Skills	Embedded system ,Automotive Ethernet, DoIP, PTP, GPTP,SOME/IP, Audio Video Bridgning, Autonomous Driving ,Infotainment, Linux device drivers ,BSP,Linux Kernel ARM,PIC,X86, Hypervisor ,Yocto, QNX
Embedded Communication Protocols	UART, SPI, I2C ,I2S,CAN, Ethernet
Version Control	Git, Plastic, SVN
CI	Gerrit, Jenkin
Certification	Scrum Foundation Professional Certificate (SFPC) , Project Management Essentials Certified
Working Methodology	Agile, Scrum

WORK EXPERIENCE

April 2021- Present

Qualcomm (Senior Software Engineer)

- Working as Senior Audio Customer Engineer for Infotainment products (Bridge between Qualcomm Engineers and leading Automotive OEMs) Responsible for
- Board Bring up Activities.
- Contributing to vehicle integration
- Defining audio architecture
- Giving Training in Qualcomm SOC and Audio Architecture to the customer
- Understanding Customer requirements and communicating to QC Engineers
- Helping Customers in triaging Audio issues (Linux +QNX)
- Handling Customer requirements related to Audio /ADSP /Linux /QNX
- Skills : Yocto Linux ,ADSP ,ALSA,Audio ,Kernel drivers .I2S ,TDM ,PCM driver configurations

July 2019–March 2021

APTIV GMBH (Senior Software Engineer)

- Responsible for the Yocto Platform software for Autonomous driving
- Responsible for the Provisioning of Linux Infrastructure on the embedded hardware for the autonomous applications .

- Played pivotal role in customer interaction and requirement analysis of the project
- Implementation and maintenance of CAN Ethernet Gateway.
- **Skills :** Yocto Linux ,CAN Ethernet Gateway ,Kernel driver

March 2019–July 2020   ## Volkswagen Infotainment GmbH (Senior Software Engineer)

- Support and maintenance for DoIP module
- Responsible for Yocto Linux
- **Skills :** Linux , C, Shell, CAN,SPI

April 2017–March 2019   ## BOSCH (Senior Software Engineer)

- Designed and Developed ASF Middleware and AVB (Audio Video Bridging) based communication for ICAM in Linux. ICAM captures different views of vehicles (including surround view) using more than 4 camera data sent over the AVB network
- Responsible for the bring-up of AVB based Lear amplifier with AVB network for data transfer and SOMEIP for control information using open AVNU-AVB solution. The project was mainly intended for porting open AVNU AVB solutions to support streaming of IEEE 1722 AVTP packets using LEAR Amplifier and intel NGI2 board connected via BroadR-Reach twisted pair cable
- Familiar with QNX hypervisor and Yocto build system . Brought up Qualcomm 820 ADP board with QNX Hypervisor and Android Guest domain.
- **Skills :** Linux , C, Shell, CAN,Yocto ,Hypervisor ,QNX, Android ,Linux drivers

March 2015–April 2017   ## WISILICA (Embedded Software Engineer)

- Worked on Bluetooth Low Energy-based Mesh solution.
- Developed the algorithm for Leader node election in BLE networks
- Developed soϼ ware WiFi-BLE Bridge device on the Linux platform for communication with IoT Domain Systems.
- Expertise in Microcontrollers and UART, SPI, I2C
- Awarded Best Embedded Engineer for the year 2017 for the contribution towards the project development
- **Skills :** Linux , C, Shell, Bluetooth Low Energy ,OpenWRT ,WiFi

Apr 2013–March 2015   ## Embedded Software Engineer (Quest Innovative Solutions ,Accel Front Line)

Responsible for the training and mentoring of PG Diploma students
- Developed projects based on PIC, ARM, AVR microcontrollers
- Assembly code and C code development for sensors and microcontrollers

PERSONAL SKILLS & ACHIEVEMENTS

Foreign language(s)
ENGLISH

Listening	Reading	Speaking	Writing
Fluent	Fluent	Fluent	Fluent

Communication Skills

Excellent language skills : Part of the Project showcase meetings to represent team.

Actively involved in customer requirement meetings and review meetings.

Achievements
- Best Embedded Engineer Award (Wisilica)
- Sprint Super Star Award (Bosch) for the project contribution

- As an embedded hobbyist maintaining a blog https://ineclabs.com

Certifications
- Scrum Foundation Professional Certificate (SFPC)
- Delivering Bad News to a Customer
- Root Cause Analysis Getting to the Root of Business Problems
- Software Architecture Foundations
- Project Management Skills for Leaders
- We Are Developers World Congress Volunteer -2022,2023
- Project Management Essentials Certified (PMEC)
- Mastering Organizational Chaos
- Becoming an AI First Product Leader
- The Three Pillars of Effective Communication