Aswin Palaniappa

Senior Enginner - Software

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📍 Bengaluru, India

SUMMARY

Aswin Palaniappa is a Senior Software Engineer. He develops and delivers OPC UA and TSN applications for embedded targets running Amazon FreeRTOS and VxWorks, and co-authored a whitepaper on the performance possibilities and readiness of the technology architecture for Industry 4.0.

He has over six years of experience in software engineering, working with various technologies and standards such as MLOps, Kubernetes, Docker, RStudio, AWS, GCP, Real-time Linux, and Machine Learning. He holds a master's degree in VLSI system design from Kalasalingam University and a certification in LabVIEW. He is passionate about bridging the gap between IT and OT worlds, and creating innovative solutions for the industrial internet of things. In his spare time, he enjoys playing badminton and the musical keyboard.

EXPERIENCE

10/2021 - 01/2024

Bengaluru

Senior Engineer - Software
Utthunga Technologies
· Lead a team of 3 members and be the front-face for 4 different clients
· Support pre-sales by gathering requirements from client and formulate it into proposals
· Develop OPC UA application on a STM32 custom board and integrate with industrial communication protocol
· Port mbedTLS to FreeRTOS environment and integrate security in OPC UA application
· Research the CNC capabilities and deploy the network configuration for the entire network topology
· Develop PoC for the TSN standards
· Upskilled few engineers on OPC UA

12/2019 - 10/2021

Hyderabad

Software Engineer
One Convergence Devices
· Develop OPC UA applications for the memory constrained targets
· Port the OPC UA application for VxWorks environment
· Profiling the targets and co-authored a Whitepaper based on the outcomes
· Responsible for maintenance and development of a module solely for the MLOps product
· Automate the deployments / installation using Ansible framework
· As part of maintenance, work with client to understand the difficulties and prepare roadmap to integrate the fixes into product

08/2017 - 12/2019

Coimbatore

Design Engineer
Kalycito Infotech Private Limited
· Showcased the capabilities of OPC UA and TSN through demo in popular trade fairs like SPS, Embedded World
· Porting and Development of openPOWERLINK on VxWorks
· Integration of POWERLINK and OPC UA over TSNMachine to Machine communication using OPC UA over TSN
· Machine to Machine communication using OPC UA over TSN
· Analyzing the data for actionable insights

ACHIEVEMENTS

💎 **Clients whom I've worked with or interacted would highly recommend my work**

For more information, please check "Recommendations" section on my LinkedIn profile

EDUCATION

08/2015 - 04/2017 ● M.Tech in VLSI Design
Kalasalingam University

08/2011 - 04/2015 ● Bachelors in Electronics and Communication Engineering
V.R.S College of Engineering and Technology

SKILLS

IIoT

OPC UA   **TSN**   **MLOps**

Programming Languages

C   **Python**   **Go**

Containerization

Docker   **Kubernetes**   **Ansible**

Cloud services

GCP   **AWS**

Data Visualization

RStudio

LANGUAGES

English   Proficient   Tamil   Native