

# ROSHAN KUMAR

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With 4+ Years of Development Experience in Automotive domain, wanted to be a part of organization for core Embedded Software Development (Automotive/Non-automotive).

## EXPERIENCE

15/06/2022 – PRESENT

**SENIOR ENGINEER**, BOSCH GLOBAL SOFTWARE TECHNOLOGIES PRIVATE LIMITED, BENGALURU

Working as Product responsible (PR) for Diagnostic Communication Requirement, Design, Implementations and Testing as per provided system requirement.

Key responsibilities:-

- Design, Requirement engineering, Development of DCOM stack based on the High level requirement followed by Unit Testing, Component Testing.
- Take care of release timeline of product specific software
- Support for Customer query in software
- Internal/External Defect resolution followed by Analysis and 5 Whys method for RCA

02/11/2021 – 30/05/2022

**ENGINEER**, TATA ELXSI, BENGALURU

Generating/Developing codes for **AUTOSAR BSW (CDD)** to satisfy client requirement using **EB Tresos, Eclipse Bifaces** as per **ASPICE** standard.

16/03/2020 – 29/10/2021

**ASSISTANT ENGINEER**, YAZAKI INDIA PVT LTD (ITC), BENGALURU

Generating/Developing codes of Boot loader and BSP to satisfy client requirement using Vector Slandered tools such as **DaVinci Developer** and **DaVinci Configurator Pro** and used **CANoe** for Simulation/Execution.

## SKILLS

- Language: **C, C++, Embedded C and Perl.**
- Protocols: **CAN, UDS, UART, I2C, and SPI.**
- Tools: **DaVinci Developer, DaVinci Configurator Pro, CANoe, EB Tresos, Enterprise Architect, CANTATA**
- Requirement Engineering tools: **DOORS**
- Operating System: **FreeRTOS.**
- **AUTOSAR, ASPICE**
- **ISO 14229, ISO 26262**
- Knowledge on **SDLC** process & ALM/PLM tool like **PTC-Integrity, JIRA, ALM.**
- Debugging Skills experience with **JTAG, GHS and, Segger SystemView.**
- Software: **Keil, AC6 Workbench, IAR, STM Cube MX, Eclipse C/C++, AEEE, AEEE-pro**
- Working Experience with Embedded Software Development on **Infineon TriCore, ARM Cortex-M** microcontroller boards.

## PROJECTS

### **REAL-TIME CONTROL OF AUTOMOTIVE LIGHTING – EMBEDDED SYSTEM DESIGN.**

This Project is mainly focused on the Synchronicity between all the nodes on a CAN bus using only one Clock.

In this project, Clocks of all the Nodes as well as RTOS (Sys-tick) are disabled and the whole communication was triggered and maintained by only one Node's clock.

This implementation lets us achieve the maximum synchronicity with almost no latency between all the Receiving Nodes using CAN and RTOS.

### **POSITION CONTROL OF D.C. SERVO MOTOR – ELECTRONIC CIRCUIT DESIGN.**

This project is to design a PID controller to supervise and control the position of D.C servo motor using MATLAB and Multisim. The main idea is to control the movement of Robotic Arm with PID controller. The Circuit is designed in Multisim and the whole project is programmed using MATLAB.

## EDUCATION

08/2019 - 02/2020

**CDAC-ACTS, KNOWLEDGE PARK, BENGALURU**, PG-DIPLOMA IN EMBEDDED SYSTEM DESIGN.

With 63.25%

06/2014 – 06/2018

**DR. B.C ROY ENGINEERING COLLEGE, DURGAPUR**, B.TECH IN ELECTRICAL ENGINEERING.

With 7.4 CGPA

06/2012 – 06/2014

**LAKHA INTER STARIYA VIDYALAYA, BIHAR**, HIGHER SECONDARY CERTIFICATE.

With 55.02%

06/2010 – 06/2011

**JEAN PAUL'S HIGH SCHOOL, BIHAR**, SECONDARY SCHOOL CERTIFICATE.

With 87.4%

## CERTIFICATION & TRAINING

### **1. CERTIFIED BOSCH DRBFM LEVEL 2**

### **2. LEARN AUTOSAR DCM AND DIAGSTACK FROM SCRATCH - CERTIFICATE NO: UC-804D40F7-9C79-475F-9567-78CCC4B739A0**

CERTIFICATE URL: <https://udemy-certificate.s3.amazonaws.com/image/UC-804d40f7-9c79-475f-9567-78ccc4b739a0.jpg?v=1739782164000>

### **3. AUTOSAR FROM SCRATCH - CERTIFICATE NO: UC-F7E4FC7-2B99-4076-AEFF-279D4D854297**

CERTIFICATE URL: <https://www.udemy.com/certificate/UC-f7e4fc7d-2b99-4076-aeff-270d4d854297/>

### **4. MULTIPLE INTERNAL TRAININGS ON ASPICE**

### **5. INDUSTRIAL TRAINING AT DURGAPUR STEEL THERMAL POWER STATION (D.V.C.), ANDAL, WB**