

# MILIND

## Software Developer

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📅 20.10.1998    🇮🇳 Indian    in http://www.linkedin.com/in/milind-514b62151  
🔗 https://github.com/Milind-cod3-base



## ABOUT

*Passionate about crafting scalable and efficient software solutions by leveraging modern development methodologies.*

## EDUCATION

### Artificial Intelligence for Smart Sensors and Actuators (Master of Engineering)

Deggendorf Institute of Technology

📅 03.2022 - 03.2025    📍 93413 Cham

### Mechanical Engineering (Bachelor of Technology)

Vellore Institute of Technology

📅 07.2016 - 06.2020    📍 Vellore, Tamil Nadu, India

## EXPERIENCE

### Qt Application Developer

Persystems

📅 01.10.2024 - 28.02.2025    📍 Franz-Mayer-Straße 1, 93053 Regensburg

- Developing Virtual Testbench, a Simulation Windows Application for industrial and automotive electric components, using C++ and the Qt Framework. Virtual TestBench is a lightweight alternative to MATLAB / Simulink.
- Implemented Licence check service in the Virtual Testbench.

### Qt Application Working Student

Persystems

📅 01.07.2024 - 01.10.2024    📍 Franz-Mayer-Straße 1, 93053 Regensburg

- Created a visual nodes system where users can drag, drop, and connect various simulation electronic components with their interfaces to run the simulation using the Qt Nodes library.
- Utilizing Qt Creator as the Integrated Development Environment (IDE) for development.
- Iteratively optimising the UI and UX for better User Flow using MVC architecture.

### Master Thesis in ADAS Virtual Validation

AVL Software and Functions GmbH

📅 01.11.2023 - 01.05.2024    📍 Im Gewerbepark B29 93059 Regensburg

- Engineered a co-simulation platform for AV ADAS verification and enhanced AVL's FMU Generation Utility to FMI 3.0 with C++ for integration with Carla and esmini, adhering to ASAM standards.

### Working Student

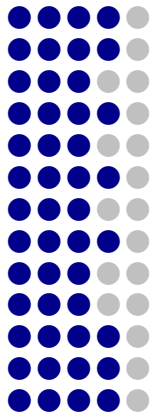
AVL Software and Functions GmbH

📅 15.02.2023 - 31.10.2023    📍 Im Gewerbepark B29 93059 Regensburg

- Worked in ADAS Digitalization, focusing on engineering environments, including demonstrating SOA (Service-Oriented Architecture) with Adaptive AUTOSAR for automotives.
- Analyzed middleware technologies like ROS 2 and Adaptive AUTOSAR, and developed C++ applications and tools for Adaptive Application deployment using Azure DevOps.
- Optimized RT Linux OS via Yocto for real-time automotive systems, ensuring efficiency across ECUs.

## SKILLS

C / C++  
Qt Framework / QML  
ARM / Xilinx Zynq  
STM32 / STM32CubeIDE  
UART / I2C / SPI  
Google Protobuf  
TCP/UDP/MQTT/OPC-UA  
Linux / Unix  
RTOS / QNX  
Yocto Project  
SQL  
CI / CD  
Git



## PROJECT

### 🚗 Autonomous Driving with Turtlebot3

📅 12.2023

Developed various key ROS Nodes in C++ and Python for a Turtlebot3 autonomous driving project, leveraging ROS (Noetic) and Gazebo for a virtual testing environment via Sensor Fusion. Established and managed a CI/CD pipeline for software testing and validation against key performance indicators (KPIs). Utilized MySQL for efficient data storage, query optimization, and analysis, aiding in the improvement of autonomous driving features.

## HOBBIES

Video Games    Cycling  
Classic and Hard Rock

## LANGUAGES

English  
German  
Hindi

