

# MILIND

## Software Developer

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🔗 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 LabVIEW.
- 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 GUI 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	●●●●●●
MQTT / OPC-UA	●●●●●●
Python	●●●●●●
Linux / Unix Systems	●●●●●●
CMake / Make	●●●●●●
SQL / PostgreSQL	●●●●●●
CI / CD	●●●●●●
Docker / Kubernetes	●●●●●●
Agile Development	●●●●●●
Azure DevOps	●●●●●●
Git / Bitbucket	●●●●●●

## PROJECT

 **Autonomous Driving with Turtlebot3**

📅 12.2023

Developed key ROS nodes in C++ and Python for a Turtlebot3 autonomous driving project. Utilized ROS (Noetic) and Gazebo for virtual testing. Integrated sensors like LIDAR, IMU, and camera for navigation and SLAM. Established a CI/CD pipeline for software testing and validation against KPIs. Used MySQL for data storage, query optimization, and analysis to enhance autonomous driving functions.

## HOBBIES

- Video Games
- Cycling
- Classic and Hard Rock

## LANGUAGES

English	●●●●●●
German	●●●●●●
Hindi	●●●●●●