# **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** 

**1** 03.2022 - 03.2025

**♀** 93413 Cham

### Mechanical Engineering (Bachelor of Technology)

**Vellore Institute of Technology** 

**1** 07.2016 - 06.2020

♥ Vellore, Tamil Nadu, India

### **EXPERIENCE**

### **Qt Application Developer**

#### **Persystems**

**1** 01.10.2024 - 28.02.2025

- 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**

**1** 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

 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**

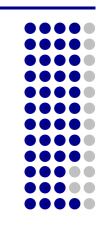
#### **AVL Software and Functions GmbH**

**15.02.2023 - 31.10.2023** 

- 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
ROS / ROS2
Python
Linux / Unix Systems
CMake / Make
SQL / PostgreSQL
CI / CD
Software Test / V Model
Docker / Kubernetes
Azure DevOps



### **PROJECT**



Git

#### 

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

