MILIND

Software Developer

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- Indian
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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

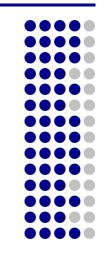**AVL Software and Functions GmbH**

- 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

Skill	Level
Python	●●●●○
C / C++	●●●●○
Qt Framework / QML	●●●●○
LabVIEW	●●●○○
Linux / Unix Systems	●●●●○
RTOS	●●●○○
HiL / SiL	●●●●○
CMake / Make	●●●●○
SQL / PostgreSQL	●●●●○
CI / CD	●●●●○
Docker / Kubernetes	●●●○○
Agile Development	●●●●○
Azure DevOps	●●●○○
Git	●●●●○

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

Language	Level
English	●●●●○
German	●●○○○
Hindi	●●●●○