



# Adithya Mohan

**Date of birth:** 13/08/1994 | **Nationality:** Indian | **Gender:** Male | **Phone number:** (+49) 17647383968 (Mobile) | **Email address:** [herrmohan1394@gmail.com](mailto:herrmohan1394@gmail.com) | **Address:** Ettinger Str. 18, Wohnung 8, 85057, Ingolstadt, Germany (Home)

## WORK EXPERIENCE

03/2023 – CURRENT Ingolstadt, Germany

### AI ENGINEER/ RESEARCH ASSOCIATE TECHNISCHE HOCHSCHULE INGOLSTADT

#### Project:

- End to End Development of Autonomous Driving Stack and Sensor Box as a Hardware Unit.
- Implementing Control and Deep Reinforcement Learning Algorithms for the Development of two Autonomous Cars.
- ROS/ROS2 as a Robotic nervous System / Framework
- Managing a Team of 3 and Students for Thesis.

#### Research:

- Improving Robustness of Deep Reinforcement Learning based Autonomous Driving focusing in Adversarial Attacks.
- Implementing ML Algorithms and developing toolkit to improve safe AI.

08/2022 – 12/2022 München, Germany

### AI ROBOTICS ENGINEER FRANKA EMIKA GMBH

- Development and Implementation Learning Engine for the Robot arm.
- CMake and c++ package development.
- Machine Learning Model development.
- Writing Unit tests and Component Tests.
- SaFe guided Software Implementation.

09/2021 – 07/2022 Munich, Germany

### ROBOTICS SOFTWARE ENGINEER QUANTUM SYSTEMS GMBH

- Development and Implementation of Path Planning Algorithms.
- GUI development using PyQt.
- Development of Drone Docking station for Autonomous take off and landing for the UAV's using UR10e robot.
- Development of Robotics Software Architecture.
- Implementation of State Machines to automate tasks like Autonomous take-off and landing.
- CI/CD Implementation and developing unit test for Automation.
- Model Training to differentiate the QS Drones with other.

02/2021 – 08/2021 Neugilching, Germany

### JUNIOR ROBOTICS ENGINEER ARE23 GMBH

- Ros development for the construction robot.
- Development of Pathplanning and Navigation algorithm.
- Developing URDF and xacro models for simulation.
- Machine learning model development using OpenCV, Keras and Tensorflow.
- Testing and debugging of software systems.
- Cloud Computing using AWS Robomaker and Sagemaker.
- Frontend development using React.js.
- Building and managing Backend server.
- Server setup using NGINX.

08/2020 – 02/2021 Neugilching, Germany

## INTERN ARE23 GMBH

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- Ros development for the construction robot.
- Developing URDF and xacro models for simulation.
- Machine learning model development using OpenCV, Keras and Tensorflow.
- Testing and debugging of software systems.

02/2020 – 08/2020 Regenstauf, Germany

## MASTERAND INNOK ROBOTICS GMBH

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- Development of a Continuous Monitoring tool for the robots.
- Database creation using MySQL.
- A tool designed to identify the robots error automatically.
- Running automatic analysis and visualization
- Softwares used: Python, ROS, SQL

08/2019 – 01/2020 Cham, Germany

## STUDENTISCHE HILFSKRAFT - STUDENT PROJECT LEAD TECHNISCHE HOCHSCHULE DEGGENDORF

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- Developed Autonomous Pick and Place Robot for the competition "Robocup".
- Lead the team of 11 students towards the completion on time.
- Softwares used: ROS, Python, C++, XML.

07/2016 – 08/2018 Chennai, India

## SENIOR ANALYST - MATERIAL PLANNER FLEX INDIA PVT INDIA LTD

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- To involve in Process Automation and Kaizen.
- To manage the team to reduce the NVA in Work area.
- Supply Chain Analytics and Data Visualization.
- Softwares used: R, Python, SQL, Tableau and VBA

## ● EDUCATION AND TRAINING

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22/03/2019 – 14/03/2021 Deggendorf, Germany

## M.ENG MECHATRONICS & CYBER PHYSICAL SYSTEM Technische Hochschule Deggendorf

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**Address** Dieter-Görlitz-Platz 1, 94469, Deggendorf, Germany | **Website** <https://www.th-deg.de/> |

**Final grade** GPA - 1,7 | **Thesis** Thesis Topic - Development of a Continuous Monitoring tool for the robots.

05/09/2012 – 30/04/2016 Chennai , India

## BACHELOR OF ENGINEERING - MECHANICAL ENGINEERING Anna University

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**Address** Anna University, Guindy, 600025, Chennai , India | **Website** <https://www.annauniv.edu/> |

**Final grade** GPA - 2,3

## ● LANGUAGE SKILLS

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Mother tongue(s): **TAMIL**

Other language(s):

|                | UNDERSTANDING |         | SPEAKING          |                    | WRITING |
|----------------|---------------|---------|-------------------|--------------------|---------|
|                | Listening     | Reading | Spoken production | Spoken interaction |         |
| <b>ENGLISH</b> | C2            | C2      | C2                | C2                 | C2      |
| <b>GERMAN</b>  | B1            | B1      | B1                | B1                 | B1      |

*Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user*

## ● **DIGITAL SKILLS**

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Microsoft Office | Programmin language PYTHON | C++ | MATLAB&Simulink | Robot operating system  
- ROS | AWS-RoboMaker | AWS SageMaker | Container (Docker) | GIT (GitHub) | Web Development:  
HTML 5, CSS, JavaScript | JSON | SQL/MYSQL | ROS and ROS2