

Curriculum Vitae

Name Amjad Haider
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Academic Career

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| October 2021 – Present | RPTU Kaiserslautern , Germany Masters in Commercial Vehicle Technology <ul style="list-style-type: none">• Introduction to Autonomous Systems : A*, Dijkstra, sensor fusion• Autonomous Mobile Robots : Localization, Mapping , SLAM• Simulation of Bus System : (CAN, Flexray) , sensors and auxiliaries |
| July 2013 – June 2017 | Cochin University of Science and Technology , Kochi, India
Bachelor of Technology - Mechanical Engineering Grade 2.2 <ul style="list-style-type: none">• Engine Electronics, Vehicle Dynamics, Transmission system simulation |

Professional Experience

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| March 2023 – Present | Student Research Assistant Lehrstuhl Virtuelle Produktentwicklung RPTU Kaiserslautern <ul style="list-style-type: none">• C++ and Python applications, including algorithm design,debugging and version control.• Program and test flight controller. |
| February 2023 – Present | Student Research Assistant Robotics Research Lab , RPTU , Kaiserslautern <ul style="list-style-type: none">• Collaborating with a team to integrate multiple ROS systems• Developing ROS-based robotics applications using C++ |
| July 2020 – August 2021 | Xitadel CAE Technologies Pvt Ltd, Bengaluru ,India
Research and Development Engineer <ul style="list-style-type: none">• Created automation scripts(Python) Finite Element Analysis and create dashboards using Python language and QT Framework.• Advanced the final output of mid mesh generation which resulted in reduced time in mesh creation with required geometry criteria.(ANSA) |

- November 2018 - June 2020 **Contract Engineer**
- Executed middle mesh generation algorithms for automotive plastic components using Python.
 - Produced scripts for maintaining and organizing the outputs of middle mesh elements for planned analysis with reduction of 20% time required.

Academic Projects

- April 2022 - August 2022 **Motion Prediction in Automated Vehicles**
- Developing an algorithm for minimizing errors of future trajectories using data from previous trajectories under the supervision of Professor Daniel Görges.
 - Applied Long Short Memory Neural Networks(LSTM) using tensorflow.
- April 2022 - August 2022 **Covid-19 Enterprise Data Science**
- A Covid-19 data analysis project is applying principles of Data Science and Machine Learning under the supervision of Professor Frank Kienle.
 - Modeled using pandas to create SIR models to predict COVID cases.

Industrial Training

- July 2016 - July 2016 **Cochin Shipyard Ltd. , Kochi ,India**
Coordinating onsite installations based on drawings and timely execution.
- July 2017 - May 2018 **Mercedes Benz India Pvt. Ltd., Pune, India**
Read and interpret the wiring diagrams of a car , use modern diagnostic equipment and diagnose faults using error codes.

Skills and Languages

- Digital Skills**
- Understanding of machine learning and perception models.
 - .understanding of computer vision concepts for autonomous driving.
- Framework and tools : ROS, Gazebo, machine learning algorithms
Language : Python , C,C++, LaTeX , Java
Python Libraries : Matplotlib, Numpy, Pandas, Pytorch, Pandas
- Language** Malayalam (Native) , English C1, Deutsch (B1) ,Hindi(A1), Arabic(A1)