

Amaan Attar

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EDUCATION

THI , <i>M.Eng in International Automotive Engineering</i> Ingolstadt, Germany	GPA: 2.8 / 4.0	Mar 2025
University of Mumbai , <i>B.E in Mechanical Engineering</i> Mumbai, India	GPA: 9.45 / 10	Aug 2022

EXPERIENCE

- Carissma - Project BALSAM**, *Technische Hochschule Ingolstadt* | (Ingolstadt, Germany) Oct 2023 - Current
- Proficient in utilizing CATIA and Solidworks to develop innovative external casing designs for battery systems
 - Conduct thorough assessments of gas emissions from the battery to ensure compliance with regulatory standards
 - Devise novel approaches for the convenient extraction of the battery pack, enhancing serviceability and maintenance efficiency
- Schanzer Racing Electric**, *Team Leader - Powertrain Department* | (Ingolstadt, Germany) March 2023 - Feb 2024
- Supervise the gearbox design process for SRE23 and SRE24 cars utilizing CATIA V5, ensuring accuracy and efficiency
 - Skillfully assemble gearboxes and integrated cooling systems, enhancing the overall functionality of the vehicles
 - Collaborate with diverse teams involved in designing and calculating components for autonomous vehicles and chassis development
 - Lead team meetings to promote effective communication and coordination, while also coordinating with other departments to ensure smooth integration of project elements
- Audi AG**, *Holiday Job - Assembly and Quality Inspector* | (Ingolstadt, Germany) Aug 2023 - Sept 2023
- Assembling of door rubber seals and windows
 - Conduct quality checks on doors to ensure high standards are maintained
- Green World Renewable Energy Pvt. Ltd.**, *Jr Solar Design Engineer* | (India) Jun 2022 - Feb 2023
- Conduct solar resource assessments for PV plant site selection
 - Generate plant array layouts, single line diagrams, and as-built drawings for solar projects utilizing AutoCAD
 - Perform comprehensive design calculations for equipment sizing, cable sizing, earthing, and other relevant parameters
- Caliber Embedded Technologies Pvt. Ltd.**, *Electrical Vehicle Development and Design (Internship)* | (India) Nov 2021 - Dec 2021
- Develop model-based system engineering approaches for designing intricate EV structures.
 - Model batteries and implement battery management system (BMS) strategies
 - Deploy, integrate, and conduct testing of algorithms to optimize EV performance

SKILLS

Languages Python, C/C++, CMake, Matlab, Git, LaTeX
Robotics ROS 1/2, Arduino, AtMega 2560
Software Solidworks, Fusion360, CATIA, AutoCAD, Creo, SiemensNX
Soft Skills Time Management, Problem-solving, Engaging Presentation, Leadership, On-site coordination.

PUBLICATIONS

Workplace safety using Artificial Intelligence and Machine Learning IJERT
<https://www.ijert.org/workplace-safety-using-ai-and-ml>

PROJECTS

- Experimental performance evaluation of V2X communication in Test field for Connected and Automated Driving** | Semester project Oct 2023 - Jan 2024
- Develop expertise in the foundational technical aspects of Car2X communications, encompassing both vehicle-to-vehicle and vehicle-to-infrastructure interactions.
 - Acquire comprehensive insights into the principles underlying test field design and configuration to ensure optimal performance and reliability
 - Execute precise performance measurements for Car2X systems, utilizing advanced testing methodologies and tools
 - Demonstrate proficiency in addressing various safety scenarios within the Car2X communication context, emphasizing a proactive approach to ensuring robust and secure communications