

ARPITA POONIA

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Results-driven robotics enthusiast with a passion for innovation and problem-solving, eager to contribute to a team of talented professionals in the field.

EDUCATION

Technische Hochschule Deggendorf M.Eng – Mechatronics and Cyber-physical System	2023-Present
APJ Abdul Kalam Technical University Bachelor of Technology – Mechanical Engineering	2018-2022

PROFESSIONAL EXPERIENCE

OMNI Automation Intern, Engineer Trainee	SEPT, 2021 – JAN, 2022
<ul style="list-style-type: none">Completed a 4-month engineering internship at a manufacturing firm, working on process optimization projects.Design and implementation of PLC- based control applicationsApplied machine learning models for predictive maintenance.Participated in code reviews, ensuring clean code practices and OOP principles.Supported the development of Proof of Concepts (POCs) for new AI technologies and applications.Provided customer support in diagnosing and resolving technical issues.	
FESTO DIDACTIC Trainee	JUNE, 2021 – JULY, 2021
<ul style="list-style-type: none">Conducted experiments to optimize inference processes and improve model accuracy and efficiency.Assisted in training AI models and analyzing their performance.PLC programming with CODESYS SoftwareProficient in utilizing CIROS, a 3D virtual training platformContributed to benchmarking and performance verification of automation models.Provided customer support by diagnosing and resolving technical issues.	

PROJECTS

Mathematical Modelling and Simulation of Quadruped Robot

- Developed 3D model of robot using SolidWorks.
- Utilized MATLAB-Simulink for design and simulate control theory-based robot movements.
- Enhanced stability and mobility using advanced machine learning techniques.
- Documented the simulation and modeling processes thoroughly.

Autonomous Navigation System for Robotics

- Utilized Designed and implemented a navigation system using ROS for an autonomous robot.
- Developed algorithms for path planning, obstacle detection, and avoidance.
- Tested and deployed the system in various production environments, ensuring robustness and reliability.
- Generated detailed documentation for the project.

SKILLS & OTHER

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| <ul style="list-style-type: none">Programming: Python, C/C++, MATLAB, JavaAI Frameworks: TensorFlow, PyTorchSolidWorks | <ul style="list-style-type: none">Blender, Unity 3D, ROSProject Management: Jira, Miro, MS OfficeDevelopment Tools: Git |
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CERTIFICATIONS

- Certification 2 Certified **SOLIDWORKS** 3D Mold Creator – Associate
- Certified SOLIDWORKS CAD Design – Associate
- **Jira** Fundamentals Badge & **Miro** Essentials
- Deep Learning with OpenCV: Image Recognition
- **Python** Practice: Real-World Coding Challenges

ACHIEVEMENTS & AWARDS

- Top **Robotics** Voice'24 on LinkedIn
- Top **Programming** Voice'24 on LinkedIn
- Certified SOLIDWORKS CAD design - Associate