

AKASH SAMPATH

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CAREER OBJECTIVE :To secure an Engineer position that leverages my skills and experience in control systems, spacecraft control, robotics, microcontrollers, thermodynamics, and electromechanical systems. I aim to make a significant contribution to the success of the industry by applying my training and expertise.

EDUCATION:

DePaul University Chicago, Illinois

Master of Science in **Artificial Intelligence**

2025

Coursework:

Algorithms, Information security, Tools and techniques, Data structures, Neural Networks and Deep Learning, Robotics, Ethics in AI, Artificial Intelligence-1, Discrete Structures.

Agni College Of Technology Chennai, India

2022

Bachelor of Engineering in **Mechatronics**

PROFESSIONAL EXPERIENCE:

Associate Engineer – At Urpan IT Private Limited Hyderabad, India

2023

- Worked as an Associate Engineer in Automation at the company to develop automation solutions also program PLC's and configure testing Equipment. I have gained knowledge and experience designing automated systems.

Robonetics Automation solution Chennai, India

2018

- 6 Months Internship as a Junior project Engineer.

Hands on experience on Industrial Robotics:

2017

- Proficiency in operating and programming 6-axis, 6 DOF Industrial Robot with grippers (Vacuum, Mechanical) and tool (Deburring, Buffing)

ACADEMIC PROJECTS

Smart Teaching Assistant (TA) Application and Management Suite with AI-driven virtual assistance and NLP powered search engine:

- Developed a TA Management Suite leveraging advanced algorithms (TF-IDF, BM25) and a honeypot strategy for data security to optimize TA applications, assignments, and evaluations, enhancing operational efficiency and user experience.

Deep fake Detect: A Vision Transformer-Based Deepfake Images Classification System:

- Developed Deep fake Detect, an image classification system using Vision Transformers (ViT) to accurately identify deepfake images, enhancing digital content verification and media trust through advanced deep learning techniques.

Automated Pail Inspection System (Industrial Project):

- An automation system designed for analyzing and inspecting pails produced by various industries.

Smart Classroom:

- I focused on transforming traditional classrooms into smart learning environments, integrating interactive whiteboards, AV systems, online learning platforms, and automated attendance systems. Successfully enhanced the overall educational experience through innovative technology solutions while optimizing efficiency and engagement

Drone piloting at Garuda Aerospace pvt ltd:

Certified and extensive experience in unmanned aerial Vehicles in aerial photography, videography, and surveying.

Programming Languages & Tools:

Ross2, RobotC, SQL, Python, C, C++, Java, Microsoft Office Tools, HTML, Catia, AutoCAD, PLC programming, SolidWorks, ANSYS, CNC power turn and CNC power mill, Sensors, 8085 Microprocessor, 8051 Microcontroller.

ADDITIONAL CERTIFICATIONS AND AFFILIATIONS:

- Certified in First Aid with a certification from President of India
- Achieved the prestigious Rashtrapati Award in scouting, demonstrating exceptional leadership and commitment to community service.