GIRISH KUMAR KOLLI

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PROFILE

Enthusiastic and forward-thinking professional with a passion for robotics and AI. With a strong academic foundation and practical experience in these fields, I am dedicated to pushing the boundaries of technology and contributing to the advancement of automation and intelligent systems. As an innovative problem solver, I thrive in dynamic environments where cutting-edge technology and creative thinking intersect. I am eager to leverage my skills and knowledge to make a meaningful impact on the future of robotics and AI.

EDUCATION

B. TECH MECHATRONICS | *Manipal Institute of Technology* **Manipal, KA, India**   **Aug 2020 – Jun 2024**

- Minor in 'Robotics and Automation'
- Member of various 'technical' and 'non-technical' clubs

EXPERIENCE

ROBOTICS RESEARCH INTERN | *Robotics Research Center IIIT-H* **Hyderabad, TG, India**   **Feb 2024 – Jun 2024**

- Researching robot in-hand manipulation using reinforcement learning and neural networks.

ENGINEERING INTERN | *Etihad Airways* **Abu Dhabi, UAE**   **Dec 2023 – Jan 2024**

- Worked on all major aspects of Airbus and Boeing aircraft maintenance.
- Gained a deep understanding of the aviation industry.

R&D INTERN | *Amara Raja Power Systems Ltd* **Tirupati, AP, India**   **Dec 2022 – Jan 2023**

- Collaborated with experienced R&D engineers.
- Identified and amended misprints in multiple technical datasheets.
- Examined the workings of various technologies.

AI & AUTOMATION ENGINEER | *Mars Rover Manipal* **Manipal, KA, India**   **Dec 2020 – Jun 2021**

- Worked on path planning algorithms for mobile robots.
- Stream-lined sensor-data acquisition

LEAD AVIONICS ENGINEER | *USYD Rocketry Team* **Sydney, NSW, Australia**   **Jul 2019 – Mar 2020**

- Led a team of four talented student engineers.
- In-charge of designing and deploying the avionics bay on-board the rocket.

PROJECTS

- **Real-Time Facial Emotion Detection** | *Deep Neural Nets, Python, TensorFlow, NumPy, OpenCV*
- **Autonomous Vehicle** | *Reinforcement Learning, Path Planning, Python, Gym, Stable Baselines3, CARLA Simulator*
- **STM32 Microcontroller Embedded AI** | *Embedded C, STM32 CubeIDE, NanoEdgeAIStudio*
- **Line Follower Bot** | *Differential Drive, Sensors, Controllers, Python*
- **Pac-Man** | *ROS2, Linux, Turtlesim, Sensors*

SKILLS

Python │ Deep Learning │ Robotics │ ROS2 │ Linux │ CAD │ Microsoft Office │ Leadership │ Communication │ Adaptability