Sai Haneesh Allu

| **Personal Information** | Ph.D. Candidate
Intelligent Robotics and Vision Lab (IRVL)
The University of Texas at Dallas, TX, 75080 | saihaneesh.allu@utdallas.edu
labs.utdallas.edu/irvl/
+1(945)213-9459 |

Education

The University of Texas at Dallas, TX, USA (2022 - Present)
Ph.D. in Computer Science
Advisor: Dr. Yu Xiang

Indian Institute of Technology, Delhi, India (2018 - 2020)
M.Tech in Control Systems
Advisor: Dr. Shubhendu Bhasin

National Institute of Technology, Warangal, India (2012 - 2026)
B.Tech in Electrical and Electronics Engineering

Skills

Python, ROS, PyTorch, OpenCV, Gazebo, MATLAB, Simulink, Ardupilot, Git, Java, C, C++

Experience

VECROS Technologies
Co-Founder and CTO   *(Jan '20 – Nov '21)*

- Beyond visual line of sight control: Developed a web interface to send commands and receive telemetry data from multiple quadrotor systems using 4g internt and aws iot module
  Ran anomoly detection on the edge and video streamed the detections using gstreamer and aws kinesis video stream
- Vision based gps denied navigation developed autonomous point goal navigation using interl d430 moduiles and utilized interl t261 for visual odometry replacing the gps. implemented the system on the dge using jetson nano devices

Sterlite Tech, Aurangabad ,India
Operations Engineer   *(May'15–Jul'15)*

- electrical grounding for fiber draw mechanism Conducted comprehensive analkysis of fiber spool changeover process and developed grounding mechanism to discharge the static charges affected the feedback system

Awards and Recognitions

Prof. A.K.Sinha Award, IIT Delhi 1st among 140 students   *(Apr '14 –Mar '15)*
Best Teaching Asistant Award, IIT Delhi one among 140 students   *(Apr '14 –Mar '15)*
Special Award, Sterlite Tech one among 80 employees   *(Apr '14 –Mar '15)*
Spot Performance Award, Sterlite Tech one among 35 employees   *(Apr '14 –Mar '15)*

Position of Responsibility

Secretary, English Literary Society, IIT Kanpur   *(Apr '14 –Mar '15)*
- Managed **Intra-College** as well as **Inter-College** events
- Coordinated new events like **Story writing & Creative writing** for the society
- Won**DumbC** event in **Galaxy**(Inter-Hall Culutral Competition three times in a row

Publications

* denotes equal contribution and joint lead authorship.

SceneReplica: Benchmarking Real-World Robot Manipulation by Creating Replicable Scenes
Ninad Khargonkar*, **Sai Haneesh Allu***, Yangxiao Lu, Jishnu Jaykumar P, Balakrishnan Prabhakaran, Yu Xiang In International Conference on Robotics and Automation (ICRA), 2024.

Grasping Trajectory Optimization with Point Clouds
Yu Xiang, **Sai Haneesh Allu**, Rohith Peddi, Tyler Summers, Vibhav Gogate