

# Chidre Shravista Kashyap

Jogipet, Telangana, 502270.

[shravistakashyap@gmail.com](mailto:shravistakashyap@gmail.com) • [linkedin.com/in/shravista](https://www.linkedin.com/in/shravista) • [shravista.github.io](https://shravista.github.io)

## Summary

I am a passionate robotics researcher with 1+ year of academic experience and devoted to delivering quality robotic applications for the industry and people. Reliable team player with a positive communication mode and possess the capacity to support the group in tackling technical glitches.

## Education

**Doctor of Philosophy (PhD) in Cyber Physical Systems**, Indian Institute of Science 2023-Present  
Advisor: Dr Jishnu Keshavan, Co-Advisor Dr Pushpak Jagtap Bengaluru

**M.Tech in Mechanical Engineering**, Defence Institute of Advanced Technology 2020-2022  
Specialization: Robotics (8.53/10.00 GPA) Pune  
Thesis: Vision-Aided Intelligent Manipulation and Control of Humanoid Robotic Arm

**B.Tech in Mechanical Engineering**, Maulana Azad National Institute of Technology 2015-2019  
Thesis: Failure prediction of Pressure Vessels using Finite Element Analysis (6.90/10.00 GPA) Bhopal

**Intermediate Public Examination (XII)** 2013-2015  
Sri Chaitanya Junior Kalasala (96.50%) Hyderabad

**SSC (X)** 2013  
Sri Chaitanya Techno School (9.5/10.0 GPA) Hyderabad

## Work Experience

**Autonomous Logistics Technologies Pvt Ltd. (ALOG®)** Hyderabad  
Internship September 2022 - Current

- Deployed and troubleshooted the autonomous mobile robot for smooth operation at a client location.
- Developed Safety features to meet international safety standards of AMR using several sensors to prevent collisions with obstacles.

**ISRO Inertial Systems Unit** Thiruvananthapuram  
Project Student July 2021 - May 2022

- **Problem:** Estimation of six degrees-of-freedom pose of the Humanoid Robotic Hand to track its position and orientation for effective manipulation with the aid of semantic segmentation and contour matching techniques.
- **Impact:** The accuracy of the method improvised to error of  $0.8^\circ$  in orientation and 6 mm in translation.
- Assisted the scientist in conducting several experiments and improved the accuracy of fiducial marker-based pose estimation through data-driven calibration methods by 15%.

**Ezenith - Empowering Education** BITS Pilani, Hyderabad  
DRONE Development Internship May 2018 – July 2018

- The entire period got exposed to Drone Development leveraging Ardupilot and Mission Planner.
- Researched on Ornithopter, and compared the flight performance between fixed-wing aircraft and Ornithopter.

## Skills

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Programming Languages	MATLAB, Python, C++ (Basic)
Softwares / Libraries	SOLIDWORKS, ROS, Blender, Gazebo
Tools	Linux, RaspberryPi
Certifications	Deep Learning Specialization (Coursera, 2022) Robotics: Estimation and Learning (Coursera, 2021) Robotics: Computational Motion Planning (Coursera, 2021) ROS for Beginners path (The Construct, 2020)

## Projects

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**RALS – Robot Articulated Links Servo System.** January 2018 – Current

- Currently researching a robotic manipulator capable of picking up and placing objects with its adaptive grasping three-fingered gripper. Website: [sites.google.com/view/rals-robotech/home](https://sites.google.com/view/rals-robotech/home)

## Conferences / Publications

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- ❖ Shravista Kashyap, Jyothish M., “Calibration and error compensation of vision-based pose estimation of humanoid robot hand”, in proceedings of National Conference on Artificial Intelligence Enabled Aerobots and Hydrobots (ASET 2022). <https://bit.ly/3WTgXhp> *March 17-18, 2022.*

## Key Courses

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- ❖ Robot Kinematics and Dynamics
- ❖ Robot Sensors, Actuators and Drives
- ❖ Automatic Control Systems
- ❖ Mathematics

## Extra-Curricular Activities

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- ❖ Given a tutorial session on “Robot Modelling and URDF Export from SOLIDWORKS” at Defence Institute of Advanced Technology, Pune. *February 4, 2022*
- ❖ Student Volunteer at ACM/IEEE International Conference on Human-Robot Collaboration. *March 9-11, 2021*
- ❖ Rajbhasha Karyanvyan Samithi, Member. *2016 – 2017*
  - Led a 5-person team to conduct an event named Khichdi in Tooryanaad; a big Hindi festival held once every year and conducted a workshop for non – Hindi speaking students for about four weekends.
- ❖ Participation in Full Throttle Competition at IIT Bombay. *December 2015*