

# Chidre Shravista Kashyap

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## 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

<b>Doctor of Philosophy (PhD) in Cyber Physical Systems</b> , Indian Institute of Science	<i>2023-Present</i> Bangaluru
<b>M.Tech in Mechanical Engineering</b> , Defence Institute of Advanced Technology Specialization: Robotics (8.53/10.00 GPA) Thesis: Vision-Aided Intelligent Manipulation and Control of Humanoid Robotic Arm	<i>2020-2022</i> Pune
<b>B.Tech in Mechanical Engineering</b> , Maulana Azad National Institute of Technology Thesis: Failure prediction of Pressure Vessels using Finite Element Analysis (6.90/10.00 GPA)	<i>2015-2019</i> Bhopal
<b>Intermediate Public Examination (XII)</b> Sri Chaitanya Junior Kalasala (96.50%)	<i>2013-2015</i> Hyderabad
<b>SSC (X)</b> Sri Chaitanya Techno School (9.5/10.0 GPA)	<i>2013</i> Hyderabad

## Work Experience

<b>Autonomous Logistics Technologies Pvt Ltd. (ALOG®)</b> Internship	Hyderabad September 2022 - Current
<ul style="list-style-type: none"><li>- Deployed and troubleshot the autonomous mobile robot for smooth operation at a client location.</li><li>- Developed Safety features to meet international safety standards of AMR using several sensors to prevent collisions with obstacles.</li></ul>	
<b>ISRO Inertial Systems Unit</b> Project Student	Thiruvananthapuram July 2021 - May 2022
<ul style="list-style-type: none"><li>- <b>Problem:</b> 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.</li><li>- <b>Impact:</b> The accuracy of the method improvised to error of <math>0.8^\circ</math> in orientation and 6 mm in translation.</li><li>- Assisted the scientist in conducting several experiments and improved the accuracy of fiducial marker-based pose estimation through data-driven calibration methods by 15%.</li></ul>	
<b>Ezenith - Empowering Education</b> DRONE Development Internship	BITS Pilani, Hyderabad May 2018 – July 2018
<ul style="list-style-type: none"><li>- The entire period got exposed to Drone Development leveraging Ardupilot and Mission Planner.</li><li>- Researched on Ornithopter, and compared the flight performance between fixed-wing aircraft and Ornithopter.</li></ul>	

## 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*