# Chidre Shravista Kashyap

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## Summary

Enthusiastic and research-oriented, who can work independently and in a team for brainstorming the problems. Seeking research opportunities to leverage robotics and mechanical engineering skill sets in a collaborative environment.

## Education

**Master of Technology in Mechanical Engineering**, Defence Institute of Advanced Technology, Pune.
Specialization: Robotics (*8.53/10.00 GPA*). *July 2020 – April 2022*

**Bachelor of Technology** in Mechanical Engineering, Maulana Azad National Institute of Technology, Bhopal (*6.90/10.00 GPA*). *July 2015 – April 2019*

**Intermediate Education** (XII), Sri Chaitanya Junior Kalasala, Hyderabad (*96.5%*). *June 2013 – March 2015*

**SSC** (X class), Sri Chaitanya Techno School, Hyderabad (*9.50/10.00*). *June 2012 – April 2013*

## Skills

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|---|---|
| **Programming Languages** | MATLAB, Python, C++ (Basic) |
| **Software / Libraries** | SOLIDWORKS, ROS, Blender, Gazebo |
| **Languages** | Telugu, Hindi, English. |

## Work Experience

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

- Carried out Master Thesis work titled *Vision-Aided Intelligent Manipulation and Control of Humanoid Robotic Arm*.
- Conducted several experiments and improved the accuracy of fiducial marker-based pose estimation through data-driven calibration methods.

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

- The training involves exposure to the Indian DRONE industry and building a DRONE with the use of Ardupilot and Mission planner.
- Conducted a detailed study of the ornithopter, which includes the comparison of flight performance between the fixed-wing aircraft and ornithopter.

## Projects

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

- A robotic manipulator capable of picking up and placing the objects with its adaptive grasping three-fingered gripper. Website: sites.google.com/view/rals-robotech/home

Failure prediction of Pressure Vessels using Finite Element Analysis *August 2018 – April 2019*

- Predicting the failure point of pressure vessels using the nonlinear finite element analysis software, ANSYS for two particular cases, Punctured disk and thin-walled cylindrical pressure vessels.

## Membership

- ASME Member since 2018

## Extra-Curricular Activities

- 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), *March 17-18, 2022*.
- Given a tutorial session on “Robot Modelling and URDF Export from SOLIDWORKS” at Defence Institute of Advanced Technology, Pune. *4th February 2022*
- Student Volunteer at ACM/IEEE International Conference on Human-Robot Collaboration. *9-11 March 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 week-ends.
- Participation in Full Throttle Competition at IIT Bombay. *December 2015*

## Certifications

- Deep Learning Specialization from Coursera issued in March 2022.
- Robotics: Estimation and Learning from Coursera issued in September 2021 with credential id: DWSJ2DAWM5GL
- Robotics: Computational Motion Planning from Coursera issued in May 2021 with credential id: LYU85PZSVSLS
- ROS for Beginners path from The Construct issued in September 2020 with credential id: RIAD046FA6E1501