

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

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

- ❖ Shrivasta 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