


Haasith Pasala

 haasithpasala  haasith.pasala@research.iiit.ac.in  7032909637

EXPERIENCE

ROBOTICS RESEARCH CENTER | GRADUATE RESEARCHER

September 2021 – Current | IIIT Hyderabad, India

- Working under the guidance of Dr. Nagamanikandan Govindan on projects related to using mechanism design of grippers using trajectory optimisation and learning techniques.

MECHATRONICS SYSTEM DESIGN COURSE | TEACHING ASSISTANT

January 2023 – May 2023 | IIIT Hyderabad, India

- Worked as TA for the course "Mechatronics System Design" during the Spring Semester, 2023

LARSEN & TOUBRO TECHNOLOGY SERVICES | CONSULTANT ENGINEER

March 2019 – June 2020 | Mysore, India

- Worked as Automation Test Engineer
- Worked on automation of an application on Android and iOS Devices using WebdriverIO Cucumber framework and Appium with Javascript

EDUCATION

INTERNATIONAL INSTITUTE OF INFORMATION TECHNOLOGY HYDERABAD |

MS BY RESEARCH IN ECE

August 2021 – Present | Hyderabad, India

Robotics Research Center

Cum. GPA: 8.5 / 10.0

ANIL NEERUKONDA INSTITUTE OF TECHNOLOGY AND SCIENCES | B.E. IN ECE

August 2014 – May 2018 | Visakhapatnam, India

Electronics and Communication Engineering

Cum. GPA: 6.93 / 10.0

PUBLICATIONS

A NOVEL HYBRID GRIPPER CAPABLE OF GRASPING AND THROWING MANIPULATION | GRIPPER DESIGN, THROWING, NON-PREHENSILE MANIPULATION

Accepted in IEEE/ASME TRANSACTION ON MECHATRONICS in 2023

ACHIEVEMENTS/AWARDS

IEEE SPECTRUM | FEATURED

2023

- The work related to this Paper "A NOVEL HYBRID GRIPPER CAPABLE OF GRASPING AND THROWING MANIPULATION", Featured on the IEEE Spectrum in April 2023.

PROJECTS

- Gradient-Based Learning Applied to Document Recognition | PAPER IMPLEMENTATION
- Application of PID control on a Bionic-Hand | HARDWARE/MUJOCO SIMULATION
- Pose Graph optimization and trajectory evaluation | FOR A COURSE PROJECT

SKILLS

PROGRAMMING

Proficient:

C • Python • C++

Experienced:

Embedded C • LaTeX •
JavaScript • CSS • HTML •
Assembly of 8086, 8051

LIBRARIES/Frameworks

PyTorch • TrajOpt Framework
• WebdriverIO • Appium •
Selenium • Android

TOOLS/PLATFORMS

Git • MATLAB • ROS • Pybullet
• Gazebo • Mujoco • ArduPilot
• Android Studio • Photoshop
• Fusion 360

COURSEWORK

GRADUATE

- Robotics Dynamics and Control
- Mobile Robotics
- Statistical Methods in AI
- Advances in Robotics and Control
- Topics in Applied Optimisation

UNDERGRADUATE

- Digital Electronics
- Analog Electronics
- Advanced Network Theory
- Control Systems
- Electronic Devices & Circuits
- Signals and Systems

Final Project:

MEMS based Wheel chair