

GIOVANNI BATTISTA DESSY

SUMMARY

PhD student at the Dynamic Legged Systems Lab (IIT), focusing on human-robot and multi-robot interaction in legged systems.

MSc (honors) in Mechatronic Engineering from Politecnico di Torino; thesis research at Purdue University (MAHA Lab) on control and electrification of hydraulic systems.

Research interests: legged loco-manipulation, optimal control, reinforcement learning, and human-robot interaction.

CURRENT POSITION

PhD Student at the Dynamic Legged System Lab IIT - Feb 2023

Focus on Model Predictive Control, Reinforcement Learning, and Human-Robot Collaboration in legged robots applications.

EDUCATION

Politecnico di Torino

Master's Degree in Mechatronic Engineering | 2020-2022

Università degli Studi di Cagliari

Bachelor's Degree in Mechanical Engineering | 2017-2020

PROFESSIONAL EXPERIENCES

Purdue University

Thesis work at MAHA Power Fluid Research lab, 2022

Dynamic Legged System Lab, IIT

Fellow Researcher | Feb 2023- Feb 2024

PUBLICATION LIST

- *Load-bearing Assessment for Safe Locomotion of Quadruped Robots on Collapsing Terrain; IEEE RAL 2025, [link](#)*



CONTACTS

✉ giovanni.dessy@iit.it

in [@giovannidessy](#)

🌐 giavadess.github.io

LANGUAGE

- English
- Italian

MAIN SKILLS

MPC, Reinforcement Learning

Programming:

Python, C++

Tools: JAX, PyTorch, IsaacLab

Robotics: ROS2, Gazebo, Mujoco