# Yeshasvi Tirupachuri

yeshasvitvs@gmail.com | +39 328-642-2578 |Genova, Italy | linkedin.com/in/yeshasvitvs/

## EXPERIENCE

**Dynamic Interaction Control, iCub Facility, Italian Institute of Technology** **2020 – Present**
Postdoctoral Researcher Genova, Italy

- Defined the software architecture and development of iFeel wearable technology
- Influenced the project roadmap for iFeel wearable technology by identifying potential market segments
- Coordinated software integration for iFeelYou Bracelet in COVID19 physical distancing team
- Designed and prepared software infrastructure to communicate with an adaptive Exoskeleton using BLE

**Dynamic Interaction Control, iCub Facility, Italian Institute of Technology** **2016 - 2020**
Early Stage Researcher & Doctoral Fellow Genova, Italy

- Designed and produced humanoid whole-body control algorithms for Human-Robot Collaboration
- Improved and maintained modular and extensible Human Dynamics Estimation v2.0 library
- Conceptualized and implemented whole-body human motion retargeting to humanoid robots
- Led software development and maintenance of codebase for Human-Robot Collaboration research axis
- Initiated and facilitated new experimental setup for multi-agent robot experiments
- Streamlined technology transfer of wearable force/torque shoes to industrial partners
- Collaborated with European research project partners to develop practical project roadmap
- Authored over 100+ commits to open source robotics codebase of Github robotology organization
- Facilitated development of agile research methodology for effective and tractable project management
- Trained and mentored new members through research and codebase orientation

**The Engine Room, University of Genoa** **2014 – 2015**
Graduate Student Researcher & Teaching Assistant Genova, Italy

- Implemented human gesture recognition and classification using wearable IMU technology
- Produced an AND-OR graph algorithm for task planning during Human-Robot Collaboration
- Developed a histogram based object tracking and visual servoing algorithm using OpenCV
- Created a pan-tilt setup for teaching Software Architecture using Robot Operating System (ROS)

## EDUCATION

**University of Genova & Italian Institute of Technology** **2020**
PhD, Human-Robot Collaboration Genova, Italy

- Awards: Marie Curie Early Stage Researcher (EU), Best Student Paper (IntelliSys2019), Best Blooper (ICRA2019)
- Thesis: Enabling Human-Robot Collaboration via Holistic Human Perception and Partner-Aware Control

**University of Genova & Ecole Centrale de Nantes** **2013 - 2015**
MSc Double Degree, Robotics Engineering & Advanced Robotics Genova, Italy & Nantes, France

- Thesis: Bio-inspired optical flow estimation & vergence control with neuromorphic stereo vision system on iCub

## OTHER

- **Technical Skills**: ROS, YARP, C++, Matlab, Simulink, Python, Gazebo, RViz, Git/Github, Linux, PlatformIO
- **Personal Skills**: Resourceful, Collaborative, Dependable
- **Languages**: English (fluent), Italian (intermediate), French (beginner), Spanish (beginner), Telugu (native)