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Genova, Italy

in

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SKILLS

C/C++

Python

ROS

Gazebo

TensorFlow/ Keras

MATLAB/Simulink

OpenCV/ PCL

OPC-UA

Azure-IoT

LANGUAGES

English

Italian























Kuka

Baxter

Universal Robots

Shadow Robot Hand

MiRo robot

Stäubli

Pepper robot

Prajval Kumar Murali

Robotics Researcher

WORK EXPERIENCE

Doctoral Candidate BMW Group

05/2020 - Present

Munich, Germany

Robotics Software Engineer

Italian Institute of Technology 🗷

10/2018 - Present

Genova, Italy

Description

- Developed robust 3D perception algorithms with laser acquired point-clouds. Extensive experience with feature detection, pose registration (RANSAC, ICP), hand-eye calibration algorithms. Successfully deployed an application for a large steel industrial plant.
- Maintaining the robotics software stack (C++) working at the intersection of research and realworld industrial deployment.

Robotics Engineer Intern Schaeffler Group 🗷

02/2018 - 09/2018

Kysuce, Slovakia

Description

Developed a ROS-based architecture in C++ for a human-robot cooperation task using AND/OR graphs. The architecture combined perception, task planning and motion control nodes.

Robotics Engineer Intern

Laboratory of Informatics, Robotics and Microelectronics (LIRMM)

05/2015 - 09/2015

Montpellier, France

Description

Developed a library to perform active calibration of bio-mimetic tactile sensors (BioTac sensors) embedded on the fingertips of a Shadow Robot using regression techniques.

EDUCATION

Ph.D. in Electronics and Electrical Engineering University of Glasgow

10/2020 - 10/2023

Glasgow, Scotland

Master (M.S) in Robotics Engineering

Ecole Centrale de Nantes & University of Genova 🗷

09/2016 - 09/2018

Nantes, France & Genova, Italy

Bachelor (B.Tech) in Instrumentation and Control Engineering

National Institute of Technology &

07/2012 - 07/2016

Tiruchirappalli, India

PUBLICATIONS

Implementation of human-robot collaboration model in a manufacturing environment Prajval Kumar Murali, K. Darvish, F. Mastrogiovanni (Journal of Intelligent Service Robotics)

Active calibration of tactile sensors mounted on a robotic hand \square

B. Navarro, P. Kumar, A. Fonte, P. Fraisse, G. Poisson, and A. Cherubini, IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS) 2015