MATHIAS FASSINI MANTELLI

PERSONAL INFORMATION

Born in Brazil, 20 October 1993

email   mathiasfassini@gmail.com

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phone   +49 15731640843

PROFESSIONAL EXPERIENCE

Since November 2023   Sereact GmbH

Robotics Engineer automating warehouses
Integrating different packages and developing new functionalities to the robotics arms

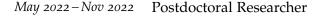*Dec 2022 – Oct 2023*   Instor Projects & Robotics

Mobile Robotics Engineer working with autonomous ground robots
Integrating different packages and developing new functionalities to the robots' frameworks

May 2022 – Nov 2022   Postdoctoral Researcher

Researcher conducting research on mobile robotics at φ-Robotics Research Lab
Developed Jaguar's autonomous system and a fleet system manager
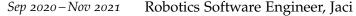Assisted masters and undergraduates students from Phi Group

Dec 2021 – Nov 2022   Robotics Software Engineer, Jaguar

Development of a system to manage a fleet of robots in collaboration with Instor
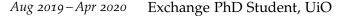Developed the localization system and trajectory planner for autonomous ground robots
Lead the team of developers from the research lab throughout the project

Sep 2020 – Nov 2021   Robotics Software Engineer, Jaci

Development of an autonomous disinfection robot in collaboration with Instor
Developed the trajectory planner for an autonomous disinfection robot
Lead the team of developers from the research lab throughout the project

Aug 2019 – Apr 2020   Exchange PhD Student, UiO

Research Project at the Robotics and Intelligent Systems, University of Oslo, Norway
Co-advised master students to develop UAV localization systems
Conducted research on exploration, object searching, and mapping algorithms
Taught Mobile Robotics for the course Advanced Topics in Artificial Intelligence for Intelligent Systems

EDUCATION

Mar 2017 – May 2022   Federal University of Rio Grande do Sul

φ-Robotics Research Lab
Doctorate in Computer Science · *Specialization in Mobile Robotics*
Thesis: *Exploiting organisational semantic information in indoor environments for the object search problem*
Tutor in the course of Algorithms during the 3rd semester
Under orientation of Prof. Dr. Mariana Luderitz Kolberg

Mar 2015 – Feb 2017   Federal University of Rio Grande do Sul

φ-Robotics Reserach Lab
Master of Science in Computer Science · *Specialization in Mobile Robotics*
Thesis: *A Novel Measurement Model for the Monte Carlo Algorithm Applied to the UAV Localization Problem Using Satellite Images*
Tutor in the course of Algorithms during the 2nd semester
Under orientation of Prof. Dr. Mariana Luderitz Kolberg

Mar 2011 – Feb 2015   Federal University of Mato Grosso

Bachelor of Science in Computer Science
Thesis: *Evaluation of Combined Classifiers Applied to the Diagnosis of Childhood Pneumonia*
Tutor in the course of C Programming during the 7th semester
Developed an autonomous car using Lego Mindstorms
Under orientation of Prof. Dr. Rafael Teixeira

EXTRA-CURRICULAR ACTIVITIES

Aug 2022 – present   Amigos Brasileiros

Volunteering
Staff member
Assisted and helped international students living in Porto Alegre

Mar 2010 – present   Order of DeMolay

Volunteering
Held different positions such as President of the State of Mato Grosso and Treasurer and managed public affairs
Received individual and group awards for outstanding leadership skills

COMPUTER AND LANGUAGE SKILLS

Programming   C++, C, Python, MATLAB, Git, LaTeX

Language   English · TOEFL-ITP B2, Spanish · Proficient

Interests   Teaching · Travelling · Podcasts

February 17, 2024