MARCO **CASAGRANDE**

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https://www.linkedin.com/in/marcocasagrande
https://github.com/bighouwski/portfolio.

EXPERIENCE

MAR 2023– ONGOING
EMBEDDED SOFTWARE DEVELOPER- SLASHWHY GMBH, GERMANY
Design, development and testing of software on embedded devices for industrial systems and applications.

SEP 2021– FEB 2023
ALGORITHM DEVELOPER - IBEO AUTOMOTIVE SYSTEMS GMBH, GERMANY
Development of automotive perception algorithms to estimate the position and orientation of the Ego vehicle.

Implemented estimation of the relative localization of the Ego vehicle with respect to an airplane based on LiDAR data and showcased in *AirPortMover* project.

Working on lane marking extraction and tracking through camera- and LiDAR data.

Integrating and testing software with unit tests as well as in the vehicle platform.

OCT 2019 – AUG 2021
WORKING STUDENT - IBEO AUTOMOTIVE SYSTEMS GMBH, GERMANY
Creation of simulation scenarios in *CarMaker* for testing autonomous driving functions.

MAY 2018 – SEP 2019
PROJECT ENGINEER - IBEO AUTOMOTIVE SYSTEMS GMBH, GERMANY
Validation of customer perception stack via a proprietary reference system, providing ground truth and related KPIs.

Offering remote and on-site technical support and trainings to customers and partners.

AUGUST 2016 – JANUARY 2017
ENGINEERING INTERN – ROBERT BOSCH GMBH, GERMANY
Characterization and validation of inertial MEMS sensor samples.

MAY 2011 – MAY 2014
JR. FULL-STACK DEVELOPER – FB SERVICES SRL, ITALY
Development of web applications for infotainment systems.

EDUCATION

OCTOBER 2019 – AUGUST 2021

M. SC. ICT INNOVATION, KTH STOCKHOLM, TU BERLIN

Degree project: “Relative pose estimation of a plane on an airfield with automotive-class solid-state LiDAR sensors”, GPA: 1.0

RELEVANT COURSES:

- Robotics
- Laser Scanning Technologies
- Event-based robot vision
- Reinforcement Learning

SEPTEMBER 2014 – APRIL 2018

B. SC. INFORMATION ENGINEERING, HAW HAMBURG

Degree project: “Robust setup of an Autonomous Mobile Robot research platform with multi-sensor integration in ROS”, GPA: 0.9, HAW Best Graduate Award 2018

RELEVANT COURSES:

- Software Engineering
- Algorithms and Data Structures
- Introduction to Computer Graphics
- Electronics
- Microcontrollers
- Digital Signal Processing

SKILLS

- Algorithms development
- LiDAR sensor data processing
- Agile development with SCRUM
- Proficient: C++ 14 / 17, ROS, Git, Linux
- Familiar: C, C#, Python, Java, PHP, CarMaker, Docker, MQTT
- German B2, English C1, Italian

EXPECTATIONS

- Challenging and interesting tasks
- Career opportunities
- Flexible working time preferred
- Training opportunities
- Hybrid work at home and office
- Transparent communication between management and employees

AVAILABILITY

- Flexible starting date.