



BROLIN ANTONY



github.com/brolinA



linkedin.com/in/thomas-brolin



brolina.github.io

My Story

I am detail-oriented Robotics Engineer with 3.5 years of industrial experience in the software development and deployment of mobile robots. My expertise lies in concept development, implementation, and testing. I perceive myself as an energetic and committed person and a great team player.

Work Experience

Student Assistant

Institute of Geomechanics and Underground Technology, RWTH Aachen.

Jan. 2023 - Present

- Student Assistant for “Introduction to Robotics” course.
 - * Teaching basics of ROS and Docker for Civil Engineering students.

Student Mentor and Code Reviewer

Udacity, India

Oct. 2019 - Present

- Mentoring student for two Nano-degree courses
 - * Robotics Software Engineer.
 - * Sensor fusion.
- Code reviewer for 10 projects across both courses.

Robotic Software Engineer

Botsync Technologies, Bengaluru, India

July. 2020 - July 2022

- Reflector-based SLAM and localization for dynamic and feature restricted assembly environments.
- Path generation using path primitives to replace global planner and achieve faster planning and consistency.
- Visual and LiDAR perception algorithm for accurate docking.
- Motion planner for better docking performance.

Software Deployment Engineer

The Hi-Tech Robotic Systemz Limited, New Delhi, India

Jan. 2019 - July. 2020

- Obstacle detection algorithm using depth camera and 2D LiDAR with response time of under 1ms.
- Occupancy map merging for maps created at different points of time for robot’s workspace expansion.
- Deployment of mobile robots on manufacturing sites.
- Onsite feature development as per customer request.

Education

Master's in Robotic Systems Engineering

RWTH Aachen University, Germany.
(Oct. '22 - Present)

Bachelor in Mechanical Engineering

Anna University, Tamil Nadu, India.
(July. '14 - July '18)

Skills

ROS, Gazebo,
Sensor Fusion



C++, Python



ROS Library, PCL



Open CV, Boost



Github, Gitlab,
Jupyter notebook



Docker



Languages

German

Beginner (A1)

Tamil

Native

English

Professional

Hindi

Intermediate