



Robotics Engineer

JOSEF GSTOETTNER

Masters in Mechanical Engineering HKUST

INFO

Contact

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LinkedIn

EDUCATION

-2019 HKUST, Masters in Mechanical Engineering
-2017 University of Applied Sciences Upper Austria, Undergraduate in Mechanical Engineering

SKILLS

Areas of specialization

- ROS / ROS 2
- Robot Simulations in Gazebo & Isaacsim
- Embedded software for ESP32, Arduino, STM32, NRF52
- CAD design in Fusion360 & Solidworks
- 3D printing, CNC machining and laser cutting

Learning & Hobbies

- PCB design with KiCAD
- Game development in Godot
- Mandarin and Cantonese

Languages

English	fluent
Mandarin	conversational
Cantonese	basic
German	native

IT & programming

python	=====
C / C++	=====
C#	=====
Matlab	=====
Docker	=====
html, css	=====
javascript	=====

OS:

C++ and Python developer with experience in ROS. Makes robots navigate autonomously. Well rounded mechatronics engineer. Can work on software, mechanics and electronics.

SHORT RESUMÉ

2022–2024

System Engineer

ROS ROBOT PROGRAMMING · LSCM



- Set up SLAM (cartographer, slamtoolbox, rtabmap) and navigation on autonomous mobile robots.
- Developed motor drivers and autonomous docking in C++ and Python.
- Experience with wide range of sensors (3D LiDAR, depth cameras, IMU, GPS, Sonar).

2020–2022

Research Assistant

EMBEDDED SOFTWARE · HKUST



- Developed a weight scale with RFID scanner for automated storage records in chemical Labs on Arduino MCU.
- Firmware development on a low power IoT accelerometer with BLE Mesh for predictive maintenance based on Nrf52.

2019–2020

Mechanical Engineer

CAD DESIGN · KALBAS

- Designed, 3D-printed and created tool-paths for CNC machining of fish lure prototypes.

PROJECTS

2023

Lingao ROS 2

ROS 2 · Personal side Project

https://github.com/JosefGst/lingao_ros2

Built an autonomous mobile robot from scratch for outdoor environment.

2021–2022

Red Bird Racing

AUTONOMOUS RACING · HKUST



Cone detection with OpenCV and autonomous race car control-algorithm in ROS

2021–2022

Robomaster

SOFTWARE TEAM · HKUST



SLAM and navigation for autonomous Robot in ROS and embedded software development on STM32.

2020–2021

Autonomous RC-car race (first place 🏆)

IMITATION LEARNING · HKUST

<https://github.com/JosefGst/autorace>



Trained Pytorch model on the Jetson Nano for autonomous-driving, obstacle avoidance and overtaking of other cars.

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