



Robotics Engineer

JOSEF GSTOETTNER

Masters in Mechanical Engineering HKUST

INFO

Contact

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<https://github.com/JosefGst>
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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

2022/4-2024/8

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).



2020/7-2022/3

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.



2019/8-2020/4

Mechanical Engineer

CAD DESIGN · KALBAS

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

PROJECTS

2023/8

Lingao ROS 2

ROS 2 · Personal side Project

https://github.com/JosefGst/lingao_ros2

Built an autonomous mobile robot from scratch for outdoor environment.

2021/11-2022/4

Red Bird Racing

AUTONOMOUS RACING · HKUST

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



2021/10-2022/4

Robomaster

SOFTWARE TEAM · HKUST

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



2020/12-2021/3

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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