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# **JOSEF GSTOETTNER**

Masters in Mechanical Engineering HKUST

### **INFO**

#### Contact

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(C) https://github.com/JosefGst

https://josefgst.github.io/blog/

# **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

#### **Learning & Hobbies**

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

#### Languages

**English** Mandarin Cantonese German

conversational

basic native

#### IT & programming

python

C / C++

Matlab

Docker

html, css

javascript



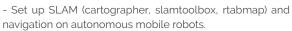
C++ and Python developer with experience in ROS. Makes robots navigate autonomously. Well rounded mechatronics engineer. Can work on software, mechanics and electronics.

### SHORT RESUMÉ

#### 2022-2024

#### **System Engineer**

ROS ROBOT PROGRAMMING · LSCM



- 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

1 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 \$\P\$)

**IMITATION LEARNING · HKUST** 

https://github.com/JosefGst/autorace

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





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