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JOSEF GSTOETTNER

Masters in Mechanical Engineering HKUST

Contact

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ັດ https://github.com/JosefGst

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

SKILLS

Areas of specialization

- ROS / ROS 2 for mobile robots
- 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 Mandarin Cantonese German

fluenluent conversational native

IT & programming

python

C / 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 ROBOTICS · LSCM

Set up SLAM (cartographer, slamtoolbox, rtabmap) and NAV2 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.



2023

Lingao ROS 2

ROS 2 · Personal side Project

https://github.com/JosefGst/lingao_ros2

Build 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 \$\Pi\$)

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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