



Anran Zhang

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🌐 LinkedIn Profile

EDUCATION

- **Master of Science, Technical University of Munich, Germany** 2021 - Present
Mechatronics and Robotics GPA: 1.5
- **Bachelor of Science, Jilin University, China** 2016 - 2020
Automotive Engineering GPA: 3.7/4.0

EXPERIENCE

- **Agile Robots AG** Sep 2023 - Present
Working Student Munich, Germany
 - contribute to development of low level symbolic computation of kinematics and dynamics of YU robot
 - implement close-loop dynamics simulation of robot
 - maintain dependency of software packages using Conan and CMake
- **Munich Institute of Robotics and Machine Intelligence (MIRMI)** Mar 2023 - Aug 2023
Semester Thesis Munich, Germany
 - Topic: "Visuotactile Policy Generator for Unified Force-Impedance Control Based on the Environmental Features" under supervision of Kübra Karacan and Dr. Fan Wu
 - proposed a visuotactile manipulation framework leveraging unified force-impedance control
 - combined visual perception and internal tactile sensing for real-time policy adaptation
 - a conference paper work in progress
- **Munich Institute of Robotics and Machine Intelligence (MIRMI)** Nov 2022 - Mar 2023
Research Intern Munich, Germany
 - Learned working principles and the structure of skill-based robot control system(MIOS)
 - Studied unified force-impedance controller
 - Helped to set up robot demonstration program
- **Gspeed Electric Racing Team of Jilin University** Sep 2018 - Sep 2019
Team Manager Jilin, China
 - Responsible for team management and statics competition
 - Took part in Formular Student competition in China and Japan
- **Gspeed Electric Racing Team of Jilin University** Sep 2017 - Sep 2018
Chassis Team Leader Jilin, China
 - Designed and manufactured the carbon-fiber-reinforced polymers (CFRP) Monocoque
 - Responsible for egonomie design of the race car (seat, control panel)

COURSE PROJECTS

- **Course Project: Autonomous System** Dec 2022 - Mar 2023
 - Controlled the drone with state machine in simulation environment for exploration
 - Constructed system with ROS, Responsible for trajectory planning of the drone
- **Course Project: Cyber-Physical Systems Lab: Autonomous Applications** Aug 2022
 - Designed controller for race car in ROS simulation environment
 - Tested control algorithm on a F1tenth car (integrated with lidar sensor)

ACHIEVEMENTS

- **Deutschlandstipendium** 2023/2024
- **Second Price in Formular Student China 2019** 2019
- **First Price in Formular Student China 2018** 2018

TECHNICAL SKILLS AND INTERESTS

Languages: Chinese(Native Speaker), English(CEFR C1), German(CEFR B2)

Developer Tools: C++, CMake, Conan, ROS, Python, Matlab

Libraries: Franka Control Interface (FCI), CasADi, Pinocchio, Eigen, Intel Realsense, Pointcloud Library

Areas of Interest: Robotics, Control Theory

Place, Date: 05.12.2023 Guangdong

Signature: Amman B BS