WangXiao

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Xi'an Jiaotong University China

PhD candidate

Plan

I am keen to secure a **Visiting Scholar position**(Funded by the Chinese Scholarship Council (**CSC**), and holding a certified **English proficiency qualification**) within your team, commencing from **either December 2024 or 2025**, for a period of **two years**. During this tenure, I aspire to engage in extensive research work focused on **motion planning and manipulation skill development for mobile manipulator**.

Please consider my application for this opportunity, and I look forward to the possibility of collaborating with your team to advance cutting-edge research in the field of robotics.

Research interests

Impedance Control of Mobile Manipulators
Motion Planning of Mobile Manipulators
Autonomous Navigation and Control Systems
Robot skills

Competition

ROBOCON	**National First Prize**
ROBOCON	**Provincial First Prize**
Traffic science	**National Third Prize**
Challenge Cup	**Provincial First Prize**
Huawei Embedded Competition	**National Third Prize**
Intelligent Transportation	**National Third Prize**
Internet Plus	**Provincial Second Prize**
Energy Conservation	**National Third Prize**

All other minor awards are detailed in the attached document

Skill

Code: C++,ROS,STM32......
Mechanical Drawing: Solidworks

Code

Impedance Control, Dynamic(Newton Euler MDH), MPC

Nullspace control, Swerve drive	https://github.com/yeying256/robot_dynamic_cal
ROS_control, robot_hw	https://github.com/yeying256/agv_sim_hs
Gaussian Process Trajectory Planning, Cubic Spline Interpolation	https://github.com/yeying256/traj_plan_wx
STM32 AGV	https://github.com/yeying256/agv_stm32

Video

Robotics	https://www.bilibili.com/video/BV1zK411Z7jx/
STM32	https://www.bilibili.com/video/BV1sZ4y1y7o2/
Motion plan	https://www.bilibili.com/video/BV1tF4m1F7Ws/