Lin Zhou

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EDUCATION

King's College London   Sept. 2022 - Jul. 2023
Master of Engineering with Management   London, United Kingdom
Degree: Distinction
• Core Courses (Grades): Machine Learning (85), Nature-Inspired Learning
Algorithms (84), Sensor and Actuators (75), Robotic Systems (74), Real-Time
System and Control (76)
• Workshop Project: Motion Planning Project (89)
(Utilized PRM, Dijkstra, and A* algorithms for path finding and motion generation
in environments with obstacles.)
• Machine Learning Project (95)
(Employed Perceptron and Neural Network algorithms to analyze the correlation
between heart attack incidents and individual profiles.)

Heilongjiang University   Sept. 2018 - Jul. 2022
Bachelor of Civil Engineering (Hydraulics)   Harbin, China
• Overall GPA: 89.1/100
• Ranking: 6
• Core Courses (Grades): Advanced Physics (92), Advanced Mathematics (95),
Probability and Mathematical Statistics (94), Theoretical Mechanics (90), Hydraulics
(91), Engineering Geology& Hydraulic Geology (94)

Heilongjiang University   Sept. 2020 - Jul. 2022
Bachelor of Finance   Harbin, China
• Overall GPA: 86.5/100

PROJECT EXPERIENCE

Master Thesis   May. 2023 - Sept. 2023
**Topics: Real-Time Balancing of a Quadrupedal Robot through Optimization of
Cartesian Centre-of-Mass Impedances using Reinforcement Learning**
Link: https://zlsy32900.github.io/lin-zhou/project1/project1/
• Leveraged the PyBullet platform, Python and C++ libraries to simulate the motion
of the SOLO12 quadruped robot and applied whole-body and impedance control
strategies for precise trajectory tracking and disturbance capability.
• Utilized Deep Reinforcement Learning techniques SAC and TD3 to optimize
stiffness and damping parameters, yielding promising results compared to traditional
methods.
• Developed a unique reward function by combining the DCM indicator and external
force through the normalization technique, which led to significant tracking
capability and stability improvement, especially under external interference.

INTERNSHIP EXPERIENCE

Data Analyst Intern   Dec. 2021 - March. 2022
Hellobike Co. Ltd   Shanghai, China

• Employed at the leading bike-sharing and e-bike company in China, responsible for analyzing usage patterns and adjusting prices based on data for core products.

• Independently utilized mathematical modules in SQL to capture customer characteristics and conducted diverse group experiments to test customer preferences.

• Contributed to enhancing price structures and developing product performance, leading to a comprehensive understanding of the company's business logic.

OTHERS

Award: Student Scholarship 2021 (students with excellent GPA)
Volunteer: ICRA 2023
Skills: MATLAB, Python, CAD, MS Offices, SQL
Hobbies: Swimming, Badminton, Frisbee, Hiking