

Yuhao Zhou

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EDUCATION	The University of Tokyo M.Eng. in Precision Engineering - <i>Supervisor: Prof. Jun Ota</i> Guangdong University of Technology B.Eng. in Electrical Engineering and Automation, GPA: 82% - <i>Supervisor: Prof. Zhifeng Huang</i> Nanyang Technological University School of Electrical and Electronic Engineering, GPA: 3.5/5.0 Northeastern University Department of Electrical & Computer Engineering, GPA: 3.33/4.00	Tokyo, Japan Sep.2021 - Sep.2023 (Expected) Guangzhou, P.R. China Sep.2016 - Jun.2020 Singapore Jan.2021 - May.2021 Boston, MA, USA Jun.2020 - Aug.2020
EXPERIENCE	Graduate Student Researcher @ Mobile Robotics Laboratory <i>Department of Precision Engineering, the University of Tokyo</i> Student Researcher @ Jet Power and Humanoid Robotics Laboratory <i>School of Automation, Guangdong University of Technology</i> Summer Internship @ CloudMinds Robotics Co., Ltd.	Starting in Sep.2021 Oct.2018 - Oct.2020 Jul.2019 - Aug.2019
PUBLICATIONS	Zhifeng Huang, Zijun Wang, Jiapeng Wei, Jingtao Yu, Yuhao Zhou , Pihao Lao, Xiaoliang Huang, Xuexi Zhang & Yun Zhang, "Three-Dimensional Posture Optimization for Biped Robot Stepping over Large Ditch Based on a Ducted-Fan Propulsion System", <i>proceedings of the 2020 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)</i> .	
RESEARCH PROJECTS	Jet-Powered Humanoid Robot: Jet-HR1 <i>Supervisor: Prof. Zhifeng Huang</i> - A prototype disaster-response humanoid robot innovatively utilized the ducted-fan propulsion system for balancing the gravitational moment - Conduct experiments based on 2D & 3D gaits to accomplish large obstacle-crossing (97% of the robot's leg length, and a height difference of 100mm between two sides) Jet-Powered Flying Humanoid Robot: Jet-HR2 <i>Supervisor: Prof. Zhifeng Huang</i> - Independently designed the mechanical system of the robot with 6 ducted-fans to have the capacity of flight, contact locomotion, and manipulation - Implemented dynamic simulations of the prototype robot in PyBullet SDK - Led the design, fabrication, and experiments of prototype robot such as jet-jumping, hovering, and flying motions	Oct.2018 - Oct.2020 Jan.2019 - Oct.2020
SELECTED AWARDS	NU's Summer Scholarship , Northeastern Outstanding Undergraduate Thesis paper (Top 3%) , GDUT <i>System Design of Flying Humanoid Robot</i> National-level Funding in IETP for College Students , Ministry of Education of China 3rd Award (University-level) in 16th Challenge Cup , Ministry of Education of China	Jun.2020 Jun.2020 Mar.2020 Mar.2019
SKILLS	Languages: Python, MATLAB, L ^A T _E X Design: SolidWorks, AutoCAD	
INTERESTS	Design of Mechanical and Mechatronic System, Humanoid Robotics, Mobile Robotics, Machine Learning	