

Yuhao Zhou

YZHOU035@e.ntu.edu.sg
Webpage : Yuhao-Zhou.com
Github : github.com/YuHoChau
50 Nanyang Ave, Singapore 639798

EDUCATION	The University of Tokyo M.Eng. in Precision Engineering - Supervisor: Prof. Jun Ota	Tokyo, Japan Sep.2021 - Sep.2023 (Expected)
	Guangdong University of Technology B.Eng. in Electrical Engineering and Automation, GPA: 82% - Supervisor: Prof. Zhifeng Huang	Guangzhou, P.R. China Sep.2016 - Jun.2020
	Nanyang Technological University School of Electrical and Electronic Engineering, GPA: 3.5/5.0	Singapore Jan.2021 - May.2021
	Northeastern University Department of Electrical & Computer Engineering, GPA: 3.33/4.00	Boston, MA, USA Jun.2020 - Aug.2020
EXPERIENCE	Graduate Student Researcher @ Mobile Robotics Laboratory <i>Department of Precision Engineering, the University of Tokyo</i>	Starting in Sep.2021
	Student Researcher @ Jet Power and Humanoid Roboites Laboratory <i>School of Automation, Guangdong University of Technology</i>	Oct.2018 - Oct.2020
	Summer Internship @ CloudMinds Robotics Co., Ltd.	Jul.2019 - Aug.2019
PUBLICATIONS	Zhifeng Huang, Zijun Wang, Jiapeng Wei, Jingtao Yu, Yuhao Zhou , Piha 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 Supervisor: Prof. Zhifeng Huang - 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)	Oct.2018 - Oct.2020
	Jet-Powered Flying Humanoid Robot: Jet-HR2 Supervisor: Prof. Zhifeng Huang - 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	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 Mar.2020 3 rd Award (University-level) in 16 th Challenge Cup, Ministry of Education of China Mar.2019	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, Huamnoid Robotics, Mobile Robotics, Machine Learning	