YUHAO ZHOU

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EDUCATION

Purdue University, West Lafayette, IN   Aug. 2023 – May. 2027 (expected)
Ph.D. in Industrial Engineering
Supervisor: Prof. Yu She

The University of Tokyo -IME Program, Tokyo, Japan   Oct. 2021 – Sep. 2023
M.Eng in Precision Engineering
Thesis: Development of an Immersive and Manipulator-based System for Patient Transfer Skill Training
Supervisor: Prof. Jun Ota

Nanyang Technological University, Singapore   Jan. 2021 – Aug. 2021
Candidate for Master of Science in Computer Control and Automation

Guangdong University of Technology, Guangzhou, P.R.China   Sep. 2016 – Jun. 2020
B.Eng in Electrical Engineering and Automation
Thesis (in Chinese): System Design of a Flying Bipedal Robot
Supervisor: Prof. Zhifeng Huang

PUBLICATIONS

- **Y. Zhou**, R. Takamido, M. Kanai-Pak, J. Maeda, Y. Kitajima, M. Nakamura, N. Kuwahara, T. Ogata, & J. Ota, "Development of a Nursing Skill Training System Based on Manipulator Variable Admittance Control", in *Proceeding of IEEE/ASME International Conference on Advanced Intelligent Mechatronics* (AIM) 2023., pp. 1206-1211.

- Y. Li*, **Y. Zhou***, J. Huang, Z. Wang, S. Zhu, K. Wu, L. Zheng, J. Luo, R. Cao, Y. Zhang & Z. Huang, "Jet-HR2: A Flying Bipedal Robot Based on Thrust Vector Control", *IEEE Robotics and Automation Letters*, vol. 7, no. 2, pp. 4590-4597, 2022. Presented at *IEEE International Conference on Robotics and Automation* (ICRA) 2022. (*equal contribution)

- Z. Huang, Z. Wang, J. Wei, J. Yu, **Y. Zhou**, P. Lao, X. Huang, X. Zhang & Y. Zhang, "Three-Dimensional Posture Optimization for Biped Robot Stepping over Large Ditch Based on a Ducted-Fan Propulsion System", in *Proceeding of IEEE/RSJ International Conference on Intelligent Robots and Systems* (IROS), 2020, pp. 3591-3597.

SCHOLARSHIPS, AWARDS, & FUNDS

Outstanding Master Thesis Award   Sep. 2023
AIM Student Travel Support (400 USD)   May. 2023
Google Travel Grant (300,000 JPY)   Mar. 2022
JASSO Scholarship (288,000 JPY)   Oct. 2021
Ministry of Education, Culture, Sports, Science and Technology of Japan
Outstanding Undergraduate Thesis Award (Top 3%)   Jun. 2020
Top Award in National Undergraduate Training Program for Innovation and Entrepreneurship (20,000 CNY)
Ministry of Education of China   Mar. 2020

MEDIA COVERAGE

Video Friday, IEEE Spectrum   Jan. 2022
We're Getting Closer to Flying Humanoid Robots, IEEE Spectrum   Aug. 2021

SKILLS

Programming: Python, MATLAB, LaTeX, HTML, PyTorch, ROS, etc.

Mechatronics: SolidWorks, etc.