PUTTICHAI LERTKULTANON

ROBOTICS ENGINEER

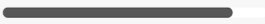## CONTACT

- L.Puttichai(at)gmail.com
- linkedin.com/in/petchpl
- github.com/puttichai
- Tokyo, Japan

PROGRAMMING LANGUAGES

Python

C++

LIBRARIES/ FRAMEWORKS

NumPy
SciPy
Matplotlib
OpenRAVE

TOOLS/ PLATFORMS

Git
Linux

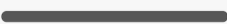## SKILLS

Mathematics
Problem Solving
Communication
Teaching

LANGUAGES

Thai

English

Japanese

WORK EXPERIENCE

Senior Robotics Engineer   Aug 2022 – Present

Motion Planning Engineer   Dec 2017 – Aug 2022

Mujin, Inc. Tokyo, Japan

- Spearheaded the development of cutting-edge robot motion planning algorithms, tailored to address intricate real-world challenges while accommodating diverse motion constraints.
- Analyze and optimize robot cell layouts for clients, contributing to improved operational efficiency. Play a key role in the development and upkeep of a GUI tool for layout simulation.
- Innovated framework for robot systems with in-hand cameras.

Motion Planning Intern   Jun 2016 – Sep 2016

Mujin, Inc. Tokyo, Japan

- Enhanced the C++ implementation of the trajectory post-processing modules within the OpenRAVE library, significantly reducing numerical errors.
- Developed a new trajectory post-processing module featuring new data structure tailored for improved speed and space efficiency.

EDUCATION

Doctor of Philosophy (Ph.D.), Robotics/Motion Planning

Nanyang Technological University, Singapore

2013 – 2017

- Thesis Title: Planning Algorithms for Complex Manipulation Tasks https://dr.ntu.edu.sg/handle/10356/73018
- Thesis Advisor: Quang-Coung Pham
- NTU Research Scholarship
- Nanyang Engineering Doctoral Scholarship

Bachelor of Engineering (B.Eng.), Electrical Engineering

Chulalongkorn Universirty, Thailand

2009 – 2013

- First Class Honor