CHAINATEE TANAKULRUNGSON

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Portfolio : https://ctanakul.github.io/chainateePortfolio/

EDUCATION

Northwestern University, Mechanical Engineering Dept., Evanston, IL Anticipated Dec 2017
Master of Science in Robotics

Relevant Coursework : Computational Geometry, Robotic Manipulation, Machine Dynamics, ROS Programming
Research Interests : Machine Learning, Artificial Intelligence, Autonomous Machines, Rehabilitation

Chulalongkorn University, Thailand Aug 2015
Bachelor of Mechanical Engineering, GPA : 3.56/4.00

SKILLS

ROS (Robotics Operating System), CATIA, MATLAB, Java, Python, C++, as needed based on position

PROJECTS / EXPERIENCE

Northwestern University, Mechanical Engineering Dept., Evanston, IL Nov 2016 – Present

- Programming 'Baxter' Bartender with ROS
  - Program and operate 'Baxter' robot via ROS as a bartender localizing objects with OpenCV, moving and grabbing them with inverse kinematics solution.
  - Take the role of coding moving algorithms with the use of inverse kinematic service of Baxter

Human Robotics Lab, Chulalongkorn University, Thailand
Research Assistant May 2015 – July 2016

- Designed a static wrist holder for an exoskeleton with a mobile transmission system for Brachial Plexus Injury (BPI) patients

Disney's Art of Animation Resort, Walt Disney World Resort, Orlando, FL
Cast Member March - May 2013

- Worked as a quick service food and beverages host at Disney's Art of Animation resort. Rewarded with 3 recommendation cards for fast and great customer communication.
- Participated in Disney's Ultimate EnginEARing Exploration 2013 where the team won the best overall design.

INTERNSHIPS

Siam Kubota Corporation Co., Ltd., Thailand
Student Engineering Intern March – July 2014

- Designed logic map and a fool-proof system circuit to prevent an operator's failure to torque nuts on an engine in tractor engine assembly line.
- Inspected and listed an engine assembly process into sub-process, and designed new time-decreasing 2-hand operation.

COMPETITIONS AND RESEARCH PAPERS

- Wrote and presented an academic paper in the name of Human Robotics Lab, Mechanical Engineering Department, under the topic 'Design and Development of a Pinch Rehabilitation Device' at TSME-ICoME 2015 conference, which was held by Thai Society of Mechanical Engineer (TSME).