




Dong Ho Kang

I am a Robotics Engineering Student with a strong mechanical and software background pursuing assistive technology and popularization of robotics at Northwestern University.

CONTACT

 346-247-8113

 dhk6869@gmail.com

 Evanston, IL

 <https://sites.google.com/view/rubberdk/home?authuser=0>

EDUCATION

MS in Robotics

Northwestern University

Evanston, IL

Expected August 2021

BS in Mechanical Engineering

Saint Louis University

St. Louis, MO | May 2020

SKILLS

- ROS
- Python
- MATLAB / Simulink
- C / C++
- Linux
- Git
- Arduino IDE
- PLC LD
- RT ToolBox 3
- Creo Parametric
- ABAQUS
- ANSYS

INTERESTS

Dynamics and Control, Exoskeleton Technology, Rehabilitation Robotics, Human-Robot Interaction

PROJECTS

Tower Building Baxter

Northwestern University | Evanston, IL | 11/2020 - 12/2020

- Manipulated Rethink Robotics' Baxter to build towers from plastic cups
- Using Python, Moveit, and Apriltag, the Baxter's motion was implemented

KUKA youBot Manipulation

Northwestern University | Evanston, IL | 10/2020 - 12/2020

- Implemented software that manipulates the youBot to carry a block to a desired location
- Created Python scripts generate trajectory for the end-effector of the youBot mobile manipulator, perform odometry as the chassis moves, and perform feedback control to drive the youBot

Autonomous Navigation Using Object Detection

Saint Louis University | St.Louis, MO | 01/2020 - 05/2020

- Modified a real time object detection model with Tensorflow to design an auto-pilot drone
- Trained neural networks models with different types of landmarks and evaluated the training results

WORK / SERVICE EXPERIENCE

Mechanical Engineering Lab Teaching Assistant

Saint Louis University | St.Louis, MO | 01/2020 - 05/2020

- Instructed ME Lab (MENG 3001) of 20+ students and evaluated assignments and lab reports
- Demonstrated and organized the impact testing and vibration of a cantilever beam experiments

Research Assistant Intern

HQ Tech | Dajeon, South Korea | 06/2017 - 08/2017

- Operated drones to measure the flux and quality of water in the reservoirs
- Assisted in the design and execution of testing and analysis of a precise bathometer
- Ensured conformance with engineering design and performance specifications by determining appropriate modification of products

Academic Tutor

HQ Tech | St.Louis, MO | 08/2016 - 05/2020

- Worked on course syllabi, study guides, assessments, and other additional documents that assist students in the grades of 4 to 9 for their academic success
- Taught Physical Science, and Algebra, Writing composition (grammar), Reading literature