



# Taemin Choi

## Robotics Software Engineer

Creative software engineer with 2+ years of background in a robotics research field. Proficient in ROS, Python, and machine learning frameworks such as Tensorflow and PyTorch. Passionate about designing robots that can learn novel knowledge by human-robot interaction.

✉  
greedymin77@gmail.com

☎  
+82-10-9129-4712

📍  
Seoul, Republic of Korea

🌐  
github.com/Taemin-Choi

## TECHNICAL SKILLS

**Robotics Framework**  
ROS

**Machine Learning Framework**  
TensorFlow, PyTorch

**Programming Language**  
C++, Python

## INTERESTS

Machine Learning

Active Learning

Robotics

IoT

Maker Movement

## LANGUAGES

Korean  
Native or Bilingual Proficiency

English  
Professional Working Proficiency

Japanese  
Elementary Proficiency

## AWARDS

Prototyping Competition  
(11/2016)  
CCEI Gwangju, Republic of Korea

Hackathon for Elimination  
of illegal sports gambling  
(11/2018)  
Korea Sports Promotion  
Foundation

## EDUCATION

### M.S. in Mechanical Engineering Korea University

03/2018 - 02/2020

Seoul, Republic of Korea

Research paper

- ▣ "Active learning of novel classes for robotic visual recognition system"

### B.S. in Mechanical Engineering and Global Technology Management(Dual Major)

Seoul National University of Science and Technology

03/2011 - 02/2018

Seoul, Republic of Korea

## WORK EXPERIENCE

### Intern

Korea Institute of Science and Technology(KIST)

03/2020 - Present

Seoul, Republic of Korea

Achievements/Tasks

- ▣ Applied the proposed active learning process to classification and object detection by calculating the uncertainty of prediction result.

Contact: Yoonseob Lim, ph.D - yslim@kist.re.kr

### Student Researcher

Korea Institute of Science and Technology(KIST)

03/2018 - 02/2020

Seoul, Republic of Korea

Achievements/Tasks

- ▣ Designed an active learning process to solve the open-set problem in robotic visual recognition system based on Bayesian approach.

Contact: Yoonseob Lim, ph.D - yslim@kist.re.kr

### Research Trainee

Korea Institute of Science and Technology(KIST)

07/2017 - 02/2018

Seoul, Republic of Korea

Achievements/Tasks

- ▣ Developed a semantic information mapping application for mobile robot based on ConceptNet.

Contact: Yoonseob Lim, ph.D - yslim@kist.re.kr

### Research Trainee

Korea Institute of Science and Technology(KIST)

02/2016 - 08/2016

Seoul, Republic of Korea

Achievements/Tasks

- ▣ Designed a camera-based detection error estimation and correction method using a mobile robot.
- ▣ Developed an android application for mobile robot control.

Contact: Yoonseob Lim, ph.D - yslim@kist.re.kr

## AWARDS

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Big data challenges in transportation (08/2019)

*Ministry of Land, Infrastructure and Transport*

## PERSONAL PROJECTS

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KNABOM (03/2020 - Present)

- Companion plant care application service linked with IoT devices

## PUBLICATIONS

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*Conference*

**Estimation of model Uncertainty using dropout method**

*Author(s)*

Taemin Choi, J. Noh., Y. Lim., JS C.

*January 2019*

Kroea Robotics Society Annual Conference(KRoC) 2019

*Conference*

**Determination of Local Goal for a Mobile Robot with Sporadic Human Commands of Tele-Operation**

*Author(s)*

J. Noh., Taemin Choi, Y. Lim., JS C.

*August 2018*

RO-MAN 2018