

EDDIE

Software Developer & A.I Engineer

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eddie Kim

EXPERIENCE

Team Leader of AI Engineering Team

LUXROBO Co., Ltd.

April, 2019 – March, 2021

Gangnam, Seoul

- Led an engineering team for developing a compute module based on a customized raspberry pi(RPI) called AI coding kit project
- Participate at AI championship held by Ministry of SMEs and Startups, Come-up 2020, and solved task from LG science park about detection of defective products

Software Engineering

LUXROBO Co., Ltd.

April, 2018 – March, 2019

Gangnam, Seoul

- Development of multi-home IoT appliances integration based on MODI Hub (MODI Home IoT Project)
- Development of a customized booting voice word in AI speaker based on hotword detection

Development of 3D radiation map reconstruction with detector on mobile robot

The University of Tokyo for Master's degreee

April, 2016 – March, 2018

Bunkyo-ku, Tokyo

- Development of 3D radiation particle movement simulator based on Geant4, particle physics simulation framework
- Development of a reconstruction 3D map displaying the intensity of radiation source and its position using Simultaneous Localization and Mapping scheme

Development of 3D simulator for a inflatable robot

Kyushu University

April, 2017 – March, 2018

Hakata-shi, Fukuoka

- Development of 3D physical simulator for inflatable robot in order to observe a strongness and pressure on the surface of robot component during inflation with OpenGL and based on the Spring-Damper model

SIDE PROJECTS

museLIVE: Virtual live music concert

- Developed an iOS application that provides a virtual experience of live music concerts on an online platform
- Developed a macOS application that provides musicians features of basic audio processing and live streaming to an RTMP server
- Soft Launch in Canadian App store for targeting users in North America
- Cooperated with 17 team members in code management, product design, and technical research

Auto Trading System

- Created auto trading system called market maker in cryptocurrency exchanges
- Development exchanges API integration and notification/control trading strategy telegram bot for monitoring

EDUCATION

Ph.D in Computer Vision

The University of Tokyo

April 2021 – LOA

M.S. in Robotics

The University of Tokyo

April 2018 – March 2020

B.S. in Computer Science

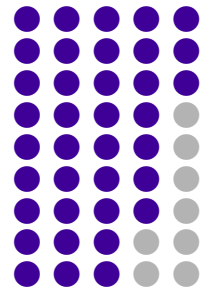
Kyushu University

April 2012 – March 2018

SKILLS

Language:

python
JavaScript
Dart
Go
Swift
Solidity
MATLAB
Shell Scripting
C++



ML/DL:

PyTorch TensorFlow Keras
OpenCV OpenGL ROS

Development:

Swift AWS node.js react
hardhat flutter

ACHIEVEMENTS



distinguished graduate

The University of Tokyo in master's degree(2018)



Award from Director for Business Start-up Promotion

Come-up 2020 AI Championship(2020)



12th Korea-Japan Joint Government Scholarship Program

Kyushu university

ACADEMIC PAPERS

Development of Simulation Model of Inflatable Robot(Thesis)

Effect of Detector Pose Uncertainty in Localization of Radiation Sources(International Journal)

Effect of Detector Pose Uncertainty in Localization of Radiation Sources(International Conference)

- Proceedings of the 4th International Conference on Maintenance Science and Technology (ICMST2016), Shenzhen(China), November 2016
-

3D Radiation Imaging Using Mobile Robot Equipped with Radiation Detector(International Conference)

- Proceedings of the 2017 IEEE/SICE International Symposium on System Integration (SII2017), Taipei (Taiwan), December 2017
-

Effect of Radiation Sources with Pose Uncertainty of Detector in Simulation Experiment(Domestic Conference)

- Proceedings of 2016 the 17th SICE System Integration Division Annual Conference (in Japanese), Sapporo (Japan), December 2016
-

Development of Simulation Model of Inflatable Robot Arm(Domestic Conference)

- Proceedings of 2016 the 17th SICE System Integration Division Annual Conference (in Japanese), Sapporo (Japan), December 2016
-

Radiation Source Localization Using SLAM for Compton Camera Mounted on Mobile Robot(Domestic Conference)

- Proceedings of the Robotics and Mechatronics Conference 2017 (in Japanese), Fukushima (Japan), May 2017



Domestic Patent(granted)
A CODING TRAINING SYSTEM ENABLES MODULE ASSEMBLY THROUGH AUGMENTED REALITY



Domestic Patent(apply)
Coding Education System using AR with modular H.W. Assembly



Domestic Patent(apply)
Coding Evaluation System with AI based Teacher model