KEVIN PRATAMA

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EDUCATION

Hong Kong University of Science and Technology (HKUST) **Clearwater Bay, Hong Kong**
Bachelor of Computer Science, Minor in Big Data Technology and Robotics Sep 2016 - Exp. Jun 2020
- Achieved Reaching Out Award Scholarship for achieving 1st place in Robocon Hong Kong 2017
- Achieved Talent Development Scholarship for participating ABU Robocon 2017 in Tokyo, Japan

University of Waterloo **Waterloo, Canada**
Bachelor in Computer Science, Minor in Big Data Technology and Robotics Sep 2018 - Dec 2018
- Study Abroad program for Fall Term 2018
- Currently taking courses in Machine Learning, Artificial Intelligence, and Computer Networks

EXPERIENCE

Narwhal ROV **Hong Kong**
Head of Software Engineer Jan 2017 - May 2018
- Head of Software Engineer in HKUST ROV Sub-Team.
- Developed image recognition software using OpenCV with ROS.
- Enhanced image processing accuracy using color quantization and underwater image restoration algorithms.
- Achieved 1st place in Robocon Hong Kong 2017 and MATE ROV Competition Hong Kong 2018.
- Achieved 4th place in MATE ROV International Competition 2018.

Sightecho **Hong Kong**
Summer Research Intern Jun 2018 - Aug 2018
- Developed firmware for underwater diving goggles with LCD, pressure sensor, SD Card.
- Implemented wireless firmware updater on the embedded side and Android application.

PROJECTS

Reproducibility for Traditional and Heavy Tailed Self Regularization Neural Network **Waterloo, Canada**
Implementer - ICLR 2019 Reproducibility Challenge Oct 2018 - Now
- Currently implementing the reproducible code of the paper for ICLR 2019 Reproducibility Challenge in PyTorch.

Fashism **Hong Kong**
2nd Runner Up - Big Datathon 2017 Dec 2017
- Implemented RCNN-based fashion trend prediction algorithm in Caffe. Code Here
- Developed front-end website to display fashion trends in React.

UberKraft **Hong Kong**
Finalist - HackUST 2017 April 2017
- Implemented airport waiting time prediction algorithm to match with Uber booking schedules in Tensorflow.

Potify Sep 2017 - Dec 2017
Smart Plant Watering System Code Here
- Developed a software to water plant based on plant conditions
- Implemented the plant condition prediction using soil moisture, temperature and light sensor, written in C and STM32.

Undergraduate Research Opportunities Program (UROP) Jun 2017 - Jul 2017
Researcher - Smart Home with Motion Gestures
- Improved Doppler effect-based motion gesture interaction to adjust Phillips Hue lighting (hue, brightness, saturation).

Human Computer Interaction Projects Sep 2017 - Dec 2017
HueDash and Automatic Food Cashier System Code Here
- Developed Internet of Things for Automatic Room Lighting System using Raspberry Pi and Phillips Hue
- Developed a speech and gesture recognition on NAO Robot for automatic food cashier system.

SKILLS

Programming	C/C++, Python, Go, Java
Robotics	ROS (Robot Operating System), STM32, OpenCV
Other	Git, Linux, Web Development (React, Vue, Laravel)
Languages	English, Indonesian