

# Youngjune Oh

Phone: Upon request

Programming Languages: C/C++, Java, Python, Erlang, MATLAB

E-mail: [youngjune0594@gmail.com](mailto:youngjune0594@gmail.com)

EDUCATION	<b>Seoul National University</b> , Republic of Korea ▪ M.S. in Computer Science and Engineering	Mar 2017 – Feb 2019
	<b>Handong Global University</b> , Republic of Korea ▪ B.S. in Computer Science and Electrical Engineering	Mar 2011 – Feb 2017
AREAS OF INTEREST	Internet of Things (IoT), Cyber-physical systems, Wireless Sensor network, Low Power Wide Area Network (LPWAN), Computer Network, Machine learning, Blockchain	
SKILLS	<b>Programming Languages and Tools</b> (Advanced    Experienced) C/C++, Java (Adv.)    Python, Erlang, MATLAB, OCaml (Exp.) <b>Developing Environments and Platforms</b> Linux (Ubuntu), Windows, Embedded Development Tool (KEIL), Contiki OS, Raspberry pi & Development boards <b>Language Proficiency</b> Korean – native English – business level	
RESEARCH EXPERIENCE	<b>IoT Based Social Relation Analysis</b>	Sep 2018 – Dec 2018
	▪ Analyzed similarities among students by clustering algorithm with data collected with BLE. (C/C++, Python)	
	<b>TRILO: Downlink Communication Protocol for LoRaWAN</b>	Sep 2017 – Sep 2018
	▪ Increased downlink energy efficiency for low power wide area network by 50% by implementing polling-based mac protocol for LoRaWAN. (C/C++, Erlang, Python, MATLAB)	
	<b>Localization with Bluetooth Low Energy</b>	June 2017 – Sep 2017
TEACHING EXPERIENCE	▪ Achieved under 1.5m error for 85% of dataset by data collection and preprocessing and classification with supervised machine learning algorithms. (C/C++, Java)	
	<b>Real-time Heart-monitoring System</b>	Sep 2015 – Aug 2016
	▪ Implemented PoC application for real-time data monitoring system using BLE over IPv6 with CoAP protocol. (C/C++, Java, Python, Ajax)	
	<b>Seoul National University</b> , Seoul, Republic of Korea	
	▪ <b>Teaching Assistant</b> , Dept. of Computer Science and Engineering	
PUBLICATIONS	• Engineering Mathematics 2 (033.015)	Spring 2017
	• Artificial intelligence agent course by Ministry of Employment and Labor	July 2017
	• Computer Networks (4190.411)	Fall 2017
	• Artificial intelligence agent course by Ministry of Employment and Labor	July 2018
PUBLICATIONS	1. <u>Youngjune Oh</u> , Jongwon Lee, and Chong-kwon Kim, "TRILO: A Traffic Indication-Based Downlink Communication Protocol for LoRaWAN", Wireless Communications and Mobile Computing, 2018. (SCIE)	
	2. Junhyun Park, <u>Youngjune Oh</u> , Hyungho Byun and Chong-kwon Kim. "Low Cost Fine-grained Air Quality Monitoring System Using LoRaWAN." in Proc. of IEEE ICOIN. 2019	
	3. Seohyang Kim, Junhyun Park, Hyungho Byun, <u>Youngjune Oh</u> , and Chongkwon Kim, "Toward Highly Reliable and Efficient IoT Communication: Analysis and Application of Recent IETF Research Trend", Korea Software Congress 2017	
	4. Hyungho Byun, <u>Youngjune Oh</u> , and Chong-Kwon Kim, "Multi-hop Communication Strategy in Bluetooth Low Energy" The 41th Conference of KIICE, 2017	