MICHAEL J. PARK

michael.j.park@gatech.edu ◇ michae1park.github.io ◇ US Citizen ◇ Seeking a Full-Time Position

EDUCATION

Georgia Institute of Technology *August 2017 - Present*
MS, Electrical and Computer Engineering

University of Texas at Austin *December 2016*
BS, Electrical and Computer Engineering

EXPERIENCES

Healthcare Robotics Lab, Georgia Institute of Technology August 2017 - December 2017
Graduate Research Assistant *Atlanta, GA*

- Leveraged deep learning to develop a time-series prediction method for future robotics applications
- Collected, augmented, and fused multimodal sensor data to create a dataset
- Created a real-time prediction software and a data visualizer to demonstrate the preliminary result

MKS Instruments January 2015 - November 2015
Embedded Software Co-op *Austin, TX*

- Wrote and troubleshooted embedded software applications for automation and control devices
- Created an automated test framework for testing EtherCAT, Modbus TCP, and RS-232 protocols
- Added restoration and debugging features in a bootloader
- Modified an embedded web server API using JSON to follow RESTful principles
- Worked in an Agile Scrum software development team

The University of Texas at Austin May 2016 - December 2016
Undergraduate Research Assistant *Austin, TX*

- Wrote a literature review on deep learning applications in the embedded domain
- Evaluated open-source neural network libraries on embedded platforms to collect preliminary data

Keimyung University May 2013 - August 2013, May 2014 - August 2014
Undergraduate Research Assistant *Daegu, South Korea*

- Fabricated a thermocouple based distributed temperature sensor
- Designed and tested a bridge circuit based platinum temperature sensor

AWARD & ACHIEVEMENTS

1st Place – NXP Cup Challenge 2016 (Amateur Division)

- Wrote an embedded software for an autonomous model car to participate in a race
- Designed and tested an image-based PID control algorithm used to navigate our model car

1st Place – Honors Senior Design Competition Fall 2016 (UT ECE)

- Developed a batteryless and wireless implant and data acqusition system
- Primarily contributed to developing the embedded software and testing the full system

TECHNICAL SKILLS

General	Embedded Systems, Software, Machine Learning
Languages	C/C++, Python, Java, MATLAB/OCTAVE, ASM(ARM, MIPS), Verilog, HTML/CSS
Software	Keras, Caffe, ROS, Android, Linux, Windows, Amazon AWS
Hardware	Raspberry Pi, Odroid, Arduino, TI(TM4C, RF430FRL), AVR(ATmega128)

RELEVANT COURSEWORKS

Embedded Systems Design Lab, Real-Time Digital Signal Processing Lab, Machine Learning, Real-Time Operating Systems, Computer Architecture, Digital Systems Design Using HDL, Linear Systems and Controls, Probability and Random Processes, Algorithms, Data Structures

LANGUAGES

English, Korean Native or Bilingual Proficiency