

JUNHYUN LEE

The Engineer

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[github](#) [linkedin](#) [blog](#) wechat: Ant_LJH

TECHNICAL SKILLS

- Deep Learning, BioMedical Data Mining, Medical Instrumentation, Signal Processing, Web programming, Cell culture
- MATLAB, python(TensorFlow, Pytorch, Django), HTML & CSS

PROJECTS

P-HIS *national project* AUG 2018 - Present

- Performed precedent study for personalized hospital information system

Application of Deep Learning in Medical Image analysis *laboratory project* DEC 2017 - Present

- Developed labelling tool
- Performed object detection for white blood cell microscopic image
- Implemented medical image segmentation

Clinical Decision Support System for Depression *national project Website* FEB 2018 - AUG 2018

- Performed precedent study for clinical decision support system about deep learning
- Developed the web server for deep learning model inference API

Fabrication of Elastic Electrode *laboratory project Website* DEC 2015 - JUL 2016

- Fabricated composite of carbon nanotube and polydimethylsiloxane
- Performed toxicity test of electrode with HaCaT cell line

ECG (EKG) Authentication (Biometric) System *personal project Website* DEC 2015 - JUL 2016

- Developed of wireless authentication system using ECG(ElectroCardioGram, or EKG)
- Fabricated the elastic electrode with carbon nanotube and polydimethylsiloxane
- Designed analog signal processing circuit and DAQ
- Developed bluetooth communication, digital signal processing and GUI

Kiosk Production for Reading Room *volunteer project Website* SEPT 2015 - JUN 2016

- Developed the programs for generation of personal barcode and barcode reader
- Developed the kiosk program for reading room in college

EXPERIENCE

Industry-Academia Collaboration Foundation *Seoul, Korea* JUN 2017 - FEB 2018

Staff (Team leader: Prof. Jaewoo Kang, Korea University)

- Big data scientist human resource training team in national project "Brain Korea 21 PLUS", Korea Univ.

Intelligent Bio-MEMS Laboratory *Seoul, Korea* DEC 2015 - JUN 2016

Research Intern (Advisor: Prof. Sanghoon Lee, Korea University)

- Fabrication of elastic electrode using MEMS technology
- Composite of carbon nanotube(CNT) and polydimethylsiloxane(PDMS)
- Application of medical instrumentation using CNT/PDMS electrode

EDUCATION

Master's degree in Computer Engineering at Korea University <i>Seoul</i>	2018 - Present
<ul style="list-style-type: none">• Data Mining & Information Systems Laboratory• Main research domain : Biomedical data mining, computer vision	
Bachelor's degree in Biomedical Engineering at Korea University <i>Seoul</i>	2011 - 2017
<ul style="list-style-type: none">• Intelligent Bio-MEMS Laboratory• Main research domain : Biomedical instrumentation, MEMS technology	

SCHOLARSHIP

NATIONAL SCIENCE SCHOLARSHIP	2nd Semester, 2016
KU UNDERGRADUATE RESEARCH SCHOLARSHIP <ul style="list-style-type: none">• Scholarship for honor undergraduate researcher	2nd Semester, 2016
WORK-STUDY SCHOLARSHIP <ul style="list-style-type: none">• Scholarship due to kiosk volunteer project	1st Semester, 2016
HONORS SCHOLARSHIP	2nd Semester, 2015
KU DREAM SCHOLARSHIP	2nd Semester, 2011

HONORS

Semester High Honors	2nd Semester, 2016
	1st Semester, 2016
	2nd Semester, 2015
	1st Semester, 2015

PATENT

[PCT] Method for preparing conductive polymer composite and conductive polymer composite prepared therefrom	Application
[KOREA] Conductive polymer composite	Registration

LANGUAGES

Korean	Native
English	Casual

ARTICLE

Korean Post about TensorFlow tutorial
Korean Post about Building Github Page with Jekyll

ACTIVITY

[Sub-Reviewer]
<ul style="list-style-type: none">• BIBM '17• IEEE ACCESS• BIBM '18