

LEE, HAESUNG (STEPHEN)

IOT DATA SW ENGINEER

[2/10 Orwell St.Potts Point,NSW,2011 \(IoT Sensors' Map\)](#)

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[My Skill Chart](#)

[My GitHub](#)

PROFILE

I am a keen IoT inventor as a hobbyist in Sydney and very passionate about IoT and Algorithms such as MACHINE LEARNING, COMPUTATIONAL STATISTICS and so on. Also, I have spent almost every day of the past 15 years making robots or electronic inventions or computer programs.

SUMMARY OF MY SKILLS

4 Languages

- English
- Korean
- Japanese
- Chinese

Web Programing

Junior Level

Data Science

Mid Level

IoT HW & SW

Mid - Senior Level

SKILL CHART

- Full-Stack
- Data Science
- [My Skill Chart](#)

HTML	IBM NodeRED	R
CSS	C & C++	Machine Learning
JavaScript	GPS & Sensors & PCB	GNU Octave
IBM Cloud Bluemix	Twilio(Phone Message)	Matlab
Linux	Arduino & Raspberry Pi	IBM Cloudant NoSQL
Python	Wireless & MQTT	IBM Apache Spark
Node.js	IBM Watson IoT	Computational Stat

EXPERIENCE

- Publications
- Open Source
- Meetup
- MOOC
- Leadership
- Volunteer
- Startup
- Developer
- Engineer
- [Portfolio Box](#)
- [Certificate Box](#)

Personal Sotware Acitivities, Sydney

2013-2016

Publications

- [PID Control For CPU Temperature of Raspberry Pi](#)
- [A smart gas valve for home safety by MQTT](#)
- [A smart JPEG camera for home security by using M2M Communication](#)

Open Source Communities:

[IBM Node-RED](#) | [Twilio Python](#) | [IBM IoT Python](#) | [Python Sense Hat](#) | [Data Science Python](#) | [IBM NoSQL Python](#) | [Python Twitter](#)

MEETUPS:

[OzBerry IoT](#) | [Sydney IoT](#) | [Sydney Python](#) | [Big Data Analytics](#)

MOOCs:

[A Developer's Guide to the IoT by IBM](#) | [Statistical Learning\(Stanford University\)](#) | [Machine Learning\(Stanford University\)](#) | [The Data Scientist's Toolbox\(Johns Hopkins University\)](#)

TEAM LEADERSHIP:

[Term 1: Developing the Leader Within You\(Hillsong Leadership Evening College\)](#)
[Term 2: Developing the Leaders Around You\(Hillsong Leadership Evening College\)](#)

Volunteer:

[Australia Salvation Army](#) | [IBM Open Source Helper](#) | [Hillsong City Care](#)

Recent Project:

Invented [a MQTT-Gas-Valve For Home Safety](#)
 Developed [a IBM Watson Visual Recognition sample Face Detection app](#)

AKASMA, South Korea

2010-2011

CEO

- Designed a recycling can system to refund an electronic money.
- The product name was called "**Green Can-Money Sysetm**".
- Unfortunately it failed due to lack of marketing and finance.

CAS Electronics, South Korea

2007-2009

Junior Product Developer

- Developed firmware(C&C++) for products: Weighing Controller & Indicator.
- Improved failure rate of production from 30% to 2% by factor of PB.

Honewell Korea(JayCC Engineering)

2003-2007

Installation Engineer

- Installed & programmed FA Controllers such as PLC, SCADA, DCS.

EDUCATION

- IT School
- English School
- Bachelor
- **Certificate Box**

Sydney College of Business and IT, Sydney

2015-2017

- HTML, CSS, JavaScript, PHP, SQL, Visual Basic.net, Visual C++, C#, Software Testing & Deployment and Copyright Ethics.
- Invented **a MQTT-Gas-Valve For Home Safety**
- Developed **a IBM Watson Visual Recognition sample Face Detection app**

Stepone Language College, Sydney

2012-2014

- Improved my English Skills in Grammar, Writing, Speaking, English Conversation and Australian Accent.
- Had a working holiday experience to improve my English skill.

Seoul National University of Technology, South Korea

Feb 2007

Bachelor of Control and Instrumentation Engineering (4.0 GPA**)**

- Learned C Programming, Intelligent Control(Fuzzy Control), Modern Control(Neural Network), Automatic Control(PID), Digital Signal Processing, Electronic & Electric design.
- Invented a patent of **Oxygen generator for soil (Korea Pat: 10-0734438)**
- Awarded Korea Ministry Award of **Oxygen Generator System for soil**