

# HAESUNG LEE

## 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

#### Web Programing

Junior Level

#### IoT HW & SW

Mid - Senior Level

#### Data Science

Mid Level

### SKILL CHART

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

HTML

CSS

JavaScript

IBM Cloud Bluemix

Linux

Python

Node.js

IBM NodeRED

C & C++

GPS & Sensors & PCB

Twilio(Phone Message)

Arduino & Raspberry Pi

Wireless & MQTT

IBM Watson IoT

R

Machine Learning

GNU Octave

Matlab

IBM Cloudant NoSQL

IBM Apache Spark

Computational Stat

### EXPERIENCE

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

#### Personal Software Activities, Sydney

2013-2016

##### 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](#)

#### [AKASMA](#), South Korea

2010-2011

##### CEO

- Designed a recycling can system to refund an electronic money.
- The product name was called "[Green Can-Money System](#)".
- 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

**Junior Installment 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

- Learned 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

**Stepone Language College, Sydeny**

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**

2007-2009

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

- Learned C Programing, 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

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