

# HeeGweon Son

**Seeking a challenge position as a Software Engineer (test or development) to create innovative products and services**

Overland Park, KS - Email me on Indeed: [indeed.com/r/HeeGweon-Son/4311cd77d12022c3](https://www.indeed.com/r/HeeGweon-Son/4311cd77d12022c3)

- Strong industrial experience in software engineering: development and QA methodologies.
- Experience in developing embedded system products: mobile phone, and PND products.
- Experience in IP network, multi-service switch/router products.
- Proficient problem-solving skills with a common-sense approach to problems in defect tracking and fixing

Willing to relocate to: WA - CO - OR

Authorized to work in the US for any employer

## WORK EXPERIENCE

### Software Engineer (Contractor)

Intel (Mindtree) - Chandler, AZ - October 2015 to June 2016

- Develop IP network software for next generation media gateway SOC
  - o Design additional features and troubleshooting on IP layer of GW (ARM) in C, Linux
  - o Setup IP testing network and perform IP layer function test

### Software Engineer

Garmin International - Olathe, KS - October 2008 to May 2014

- PND low level development (ARM based) on Linux, Android and GarminOS
  - o Product stabilization (trouble shooting) and assist EE (latest product: nuvi 55/65)
  - o Product specific feature integration: Audio, Video, Bluetooth, Power Policy, Backlight
  - o Feature investigation: Backup camera support, Indestructible PND, Android OTA and Garmin update mechanism
  - o Integrated Android device driver: Backlight controller, ALS(Ambient Light Sensor), fuel gauge
- Mobile phone platform development on Android and Linux.
  - o Developed graphic performance measurement tool (Android App)
  - o Performed MTBF test and troubleshooting for Linux kernel and driver
  - o Investigated feature and usability: kmemleak, tracepoint, kprobe, latencytop, and kgdb

### Software Engineer

Samsung Electronics - Suwon, Korea - January 2003 to May 2006

- Enterprise Switch-Router development
  - o Group leader of System Architect team
  - o Investigated and feasibility study of system architecture: protocol stack, chipset, tools
  - o Defined and reviewed functional specification of management plan
  - o Performed functional enhancement and troubleshooting of OAM module
  - o Performed code and design document review of OAM module
  - o Performed integration test: OAM and Layer 3 routing protocol modules
  - o Technical coordinator for System Test group at STA: verify system functional features

### Software Engineer

Ericsson - Berkeley, CA - February 1997 to November 2002

- NRM (Network Resource Management)

- o Group leader of System Test team
- o Designed and built a test lab network: Cisco, Juniper, Ericsson, Extreme, AAA server
- o Performed integration and system test: writing test documents and scripts
- o Developed management and validation units for Ericsson AXI540 router by JAVA
- SCP-G IN (Intelligent Network)
- o Received Award for Best Performance Engineer in EUS.
- o Developed NICAP Protocol to support directory server by C++
- o Troubleshooting for SCP-G Function and System tests
- o Developed multiple DB transaction class and Sybase audit tool by C++

## EDUCATION

### **M.S. in Computer Science**

New Mexico State University - Las Cruces, NM

### **B. S. in Electrical Engineering**

Sung-Kyun-Kwan University - Seoul, KR

## PUBLICATIONS

### **Web-Based Policy Deployment Management System**

## ADDITIONAL INFORMATION

### Skills

- o Programming language: C, C++, JAVA, ARM assembler
- o Operation System (Linux, Android): internals, device driver, IP network, vmware
- o Development tools: ARM Realview, ARM RVDS, Lauterbach Trace32, GDB, GCC(G++)
- o Version control and issue tracking tools: GIT, JIRA, YOCTO
- o IDE: Eclipse, IntelliJ IDEA
- o SQL database: SQLite
- o Network tools: FTS4BT Bluetooth Protocol Analyzer & Packet Sniffer, TCPDUMP, Wireshark, Nemesis, Iperf, Pktgen, Expect, CDRouter
- o Device management: Linux, JunOS and Cisco IOS (IP networking and layer 3 protocols)