# Hyunyoung Kim

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## Summary

My research interests lie on Human-Computer Interaction, especially sensors, actuators, mobile, in wearable and tabletop environment. I have a passion of making interactions easier and more enjoyable with both physical and visual interfaces. I have developed a novel gesture keyboard capable of sensing hand gestures over the keyboard using IR-based sensor arrays. I also designed user scenarios and interfaces for smart home and digital wallet service in Samsung Electronics. As a researcher of CNU, my current research projects investigate exploring interactions based on conductive fabrics and thread.

## Education

**KAIST (Korea Advanced Institute of Science and Technology)**, Daejon, South Korea          Mar 2009 – Feb 2011
Master of Science, Digital Media Program, Advisor: Minsoo Hahn

**Sungkyunkwan University**, Suwon, South Korea          Mar 2004 –Feb 2009
Bachelor of Science, Computer Engineering, GPA: 3.93/4.5

**Park University**, MO, USA          Jan 2007 – May 2007
Transferred student

## Honors and Awards

| | |
|---|---:|
| Employee of Month, Samsung Electronics, 3 times | 2011 – 2013 |
| Korea National Robot Soccer Mirosot League, 3rd place, Korea Robot Soccer Association | Aug 2005 |
| Champions League MiroSot Small League, 1st place, Kangnam University Korea | Feb 2005 |
| National scholarship, KAIST | 2009 – 2010 |
| Merit based 4 year full scholarship for Bachelor degree, Sungkyunkwan University | 2004 – 2008 |

## Publications

**Hyunyoung Kim**, Gesture-Recognition Interface with Keyboard Embedded IR Modules, Master's Thesis '11

**Hyunyoung Kim**, Kuenhwan Kwak, Jongwoo Jung, Insik Myung, Minsoo Hahn, Tablaction: collaborative brainstorming system with stylus-fingertip interactions on tablet PCs, VRCAI '10

**Hyunyoung Kim**, Donghoon Lee, Jeehyung Lee, Personalized Comment Spam Filtering Using Clustering, KIIS '08

## Patents

**Hyun-Young Kim**, Hee-Won Jung, Device and method for transmitting electronic key thereof, US20140115493 A1

**Hyun-Young Kim**, Tae-hwan WI, Method and device for transmitting information related to event, US20140075329 A1

**Hyun-Young Kim**, Tae-hwan WI, User terminal device and system for performing user customized health management, and methods thereof, US20130268292 A1

Sung-Jin Park, **Hyun-Young Kim**, User terminal, external apparatus, data transceiving system, and data transceiving method, US20140128031 A1

Eun-young Lim, **Hyun-Young Kim**, Yeon-hee ROH, Joo-kyung Woo, Young-shil Jang, User terminal device for providing electronic shopping service and methods thereof, US20130332228 A1

Jae-Woo Ko, Tae-hwan WI, Hee-Won Jung, **Hyun-Young Kim**, Bo-seok MOON, Management server and method for controlling device, user terminal apparatus and method for controlling device, and user terminal apparatus and control method thereof, US20130268998 A1


## Other Research

| | |
|---|---:|
| A pressure sensitive tablet and its practical uses, software implementation | 2010 |
| Yo! Run! – Mobile running assistant system using foot sensor and mobile application, user research and software implementation | 2010 |
| A remotely music-controlling tumbler, implementation with Arduino and Processing | 2009 |


## Professional Experience

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|---|---:|
| **Chonnam National University, Gwangju, South Korea**<br>**Researcher** | Nov 2014 – Current |

**Association for Vertical Farming, Munich, Germany**                    Dec 2013 – May 2014
**Web Designer/Developer**

**Samsung Electronics, Suwon, South Korea**                    Feb 2011 – May 2013
**UX Designer, User Research & UI Design, UX Center, DMC Research Centers**
· Smart Home service & UI design. Part of the mobile and TV interfaces was demonstrated on '13 IFA. The UX, which is harmonizing 3rd party products and worldwide users was designed strategically based on the global user research and usability test.
· Concept generation and UI design for Samsung's first Smart LED mobile application.
· Mobile Wallet project, which is showed in MWC '13. Designed UIs for merchants' part, managed card reader appcessory design and led user research.
· Ideation process consulting and patent development with patent specialists and engineers. Related patents are pending.
· Patent task force for new health devices and services collaborating with engineers.
· Performed a medical device design with IDEO and new business development division; Learned IDEO's research know-how in paired observation, interview, and observational sharing.

**Samsung Software Membership, Seoul, South Korea**                    Jan 2010 – Dec 2010
**Student Researcher, Interaction Design & Prototyping**

**KOREA MART, Japan**                    Jan 2006 – Feb 2006
**Intern, Homepage & shopping mall development**

## Skills

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|---|---|
| **User Research** | Usability test, task observation, heuristic analysis, home visiting, interview, GOMS, wizard of oz, survey design and data analysis |
| **Languages & APIs** | C++, Java, C, C#, WPF, Processing, Windows Mobile, HTML, CSS, Javascript, MySQL, Google Map API |
| **Development Tools** | Visual Studio, Eclipse IDE, XCode |
| **Engineering** | Arduino, circuit design |
| **UX Design** | Illustrator, Photoshop, Axure, Omnigraffle, Balsamiq, Flowella, ideation, personas, scenarios, wireframe, userflow |

## Teaching and Service

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|---|---|---|
| **Mentor** | Women's science thesis competition for undergraduates and high school students | 2011 |
| **Instructor** | Designing circuits, basics from soldering to implementing, for undergraduate lab interns | 2010 |
| **Instructor** | Trends of human sensing technology, in course seminar | 2008 |

## Language Skills

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|---|---|
| **English** | Spoken and written proficiency in English |
| **German** | Basic grammatical and conversational knowledge of German |
| **Korean** | Native |

## References

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|---|---|---|
| **Minsoo Hahn** | Professor at KAIST | mshahn2@kaist.ac.kr |
| **Jinsul Kim** | Professor at CNU | jsworld@chonnam.ac.kr |
| **Sung Park** | Senior Researcher at Samsung Electronics | spica7601@gmail.com |