**Hyunyoung Kim**

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**USER RESEARCH/PHYSICAL INTERACTION SPECIALIST**

Leverages interdisciplinary expertise on software/hardware/UX design to make meaningful human-computer interaction methods. Bachelor in computer science, experience in robotics club and Samsung strengthened 5 years of practical research experience, and enabled 7 publications and 6 patents. Master’s thesis regards gestural interface on keyboard using IR-proximity sensors to accelerate command input and reduce the burden of command remembrance.

**Education**

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| **KAIST (Korea Advanced Institute of Science and Technology)**, Daejon, South Korea  Master of Science, Digital Media Program, Advisor: Minsoo Hahn, GPA: 3.27/4.3  **Sungkyunkwan University**, Suwon, South Korea  Bachelor of Science, Computer Engineering, GPA: 3.93/4.5  **Park University**, MO, USA  Transferred student | Feb 2009 – Feb 2011  Mar 2004 –Feb 2009  Jan 2007 – May 2007 |

**Professional Experience**

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| **Chonnam National University, Gwangju, South Korea**  Research Assistant, Human-Computer Interaction  **Association for Vertical Farming, Munich, Germany**  Web Designer/Developer  **Samsung Electronics, Suwon, South Korea**  UX Designer, User Research & UI Design, UX Center, DMC Research Centers  **Samsung Software Membership, Seoul, South Korea**  Student Researcher, Interaction Design & Prototyping  **KOREA MART, Japan**  Intern, Homepage & shopping mall development | Nov 2014 – Current  Dec 2013 – May 2014  Feb 2011 – May 2013  Jan 2010 – Dec 2010  Jan 2006 – Feb 2006 |

**Honors and Awards**

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| Employee of Month, Samsung Electronics, 3 times  Korea National Robot Soccer Mirosot League, 3rd place, Korea Robot Soccer Association  Champions League MiroSot Small League, 1st place, Kangnam University Korea  National scholarship, KAIST  Four-years full scholarship based on Korean national scholastic achievement test  (1st grade/4%), Sungkyunkwan University | 2011 – 2013  Aug 2005  Feb 2005  2009 – 2010  2004 – 2008 |

**Publications**

**Hyunyoung Kim**, Jinsul Kim, A Study on Design and Needs of New Wearable Devices Using a Design Methodology, Proceedings of the 17th KKITS Spring Conference, Gwangju, South Korea, 2015 (Korean)

Sanghyun Park, Jisu Kim, **Hyunyoung Kim**, Jinsul Kim, Research on the Smart Wheelchair for User Stability Based on an Infrared Sensor, Proceedings of the 17th KKITS Spring Conference, Gwangju, South Korea, 2015 (Best Paper Award) (Korean)

**Hyunyoung Kim**, Changhee Cho, Jisu Kim, Sanghyun Park, Jinsul Kim, Kuinam J. Kim, Localizing a Flying Object on Target Place Using Heterogeneous Binary Sensors, ICMWT, Bangkok, Thailand, 2015

**Hyunyoung Kim**, Ilmin Kim, Jinsul Kim,Designing the Smart Foot Mat and Its Applications: as a User Identification Sensor for Smart Home Scenarios,The 6th 2015 International Interdisciplinary Workshop Series, HSST, Jeju, South Korea, 2015

Sanghyun Park, **Hyunyoung Kim**, Jinsul Kim, Taeksoo Ji, Myoung Jin Lee, A Novel Detection Method Integrating Hybrid Sensors for Motorized Wheelchairs, ICISA, Pattaya, Thailand, 2015 **Hyunyoung Kim**, Gesture-Recognition Interface with Keyboard Embedded IR Modules, [Master's Thesis '11](http://library.kaist.ac.kr/thesis02/2011/2011M020094037_S1Ver2.pdf) *(Korean,* [*Short description in English*](http://hyunyoungkim.com/#/gap-sweep-10/)*)*

**Hyunyoung Kim**, Kuenhwan Kwak, Jongwoo Jung, Insik Myung, Minsoo Hahn, Tablaction: collaborative brainstorming system with stylus-fingertip interactions on tablet PCs, [VRCAI '10](http://dl.acm.org/citation.cfm?id=1900179.1900195)

**Hyunyoung Kim**, Donghoon Lee, Jeehyung Lee, Personalized Comment Spam Filtering Using Clustering, [KIIS '08](http://www.dbpia.co.kr/Article/920316) *(Korean,* [*Short description in English*](http://hyunyoungkim.com/#/paper-personalized-spam-filtering-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

**Projects**

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| **Smart Textile as Wearable and 3D Interfaces**  Exploring the capability of smart textiles as novel interfaces. Ideation, implementation, managing cooperative students.  Tools: Teensy, C#, Unity3D  **Projectile detection on a target board**  Implementing a shooting target scoring system using computer vision. Managing project and implementing.  Tools: C++, OpenCV  **Research Proposal for Korean National Research Foundation: Research on Heterogeneous Smart Wearable Devices Based Personal Sensor Cloud Technology**  Cooperative research proposal among three universities – CNU, StonyBrook, SUNY Korea. Outlined the proposal in Korean style, wrote CNU part, organized meetings  **Vertical Farming Website**  Website visual design and implementation for non-profit organization in Germany  **Samsung Smart Home**  Smart Home service & UI design. Part of the mobile and TV interfaces demonstrated at ’13 IFA. The UX, harmonizing 3rd party products and worldwide users was designed strategically based on the global user research and usability test.  **Smart LED**  Sub-project of Smart Home. Managed project, defined requirements by discussing marketing specialists and engineers, and designed UX.  **Mobile Ads & Commerce**  Samsung Wallet. Demonstrated at MWC ’13. Designed UIs for merchants’ part, managed card reader appcessory design, led user research.  **Patenting Task Force**  Researching on the emerging technology, finding new business opportunities and patenting on related ideas. Consulting ideation process and developing patents with patent specialists and engineers. Related patents are pending.  **Medical Device & Service Design**  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.  **Medical & Health service Patenting Task Force**  A TF patenting technologies and services regarding new medical and health services for Samsung’s medical business opportunity. Organized TF, researched background technologies and patented an idea.  **Master’s Thesis**  On-keyboard gesture recognition system using IR-proximity sensors. Designed interaction methods and gestures, implemented the system.  Tools: Arduino, C#  **Digi-log Show Control System**  Integrated show control system with physical & on-screen interfaces  Tools: WPF  **Jon-Ro Man-Machine Interface**  Quality Assurance  **Bachelor’s Thesis**  A personalized comment spam filtering, based on a hypothesis that criteria for spam are different among people. Generated ideas, implemented the system, collected data for comments.  Tool: Python | Chonnam National University Nov 2014 – Current  Chonnam National University Nov 2014 – Current  Chonnam National University Apr 2015 – Jul 2015  Association for Vertical Farming Dec 2013 – Apr 2014  Samsung Electronics Oct 2012 – May 2013  Samsung Electronics Feb 2013 – May 2013  Samsung Electronics Apri 2012 – Sep 2012  Samsung Electronics Dec 2011 – Apr 2012  Samsung Electronics Aug 2011 – Nov 2011  Samsung Electronics Apr 2011 – Jul 2011  KAIST Dec 2009 – Dec 2010  Korea National University of Arts Apr 2010 – Dec 2010  Jong-ro Science Jul 2009 – Oct 2009  Sungkyunkwan University May 2008 – Nov 2008 |

**Other Research Experience**

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

**Skills**

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| **General Skills**  **Languages & APIs**  **Development Tools**  **User Research**  **UX Design**  **Visual Design**  **Engineering** | Creative and analytical thinking, communication skills  C++, C#, Matlab, Java, WPF, C, Vuforia, HTML, CSS, Javascript, MySQL, Windows Mobile, Google Map API, Jess  Visual Studio, Processing, Unity3D, Eclipse IDE, XCode  Usability test, task observation, survey design and analysis, ideation moderation, heuristic analysis, home visiting, user interview, GOMS, wizard of oz  Scenarios, use cases, personas, wireframe, user flow, Axure, Omnigraffle, Balsamiq, Flowella  Illustrator, Photoshop  Arduino, EagleCAD, circuit design, artwork |

**Teaching and Service**

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| **TA**  **Mentor**  **Instructor**  **Instructor** | C++ instruction for Bachelors  Women’s science thesis competition for undergraduates and high school students  Designing circuits, basics from soldering to implementing, for undergraduate lab interns  Trends of human sensing technology, in course seminar | 2015  2011  2010  2008 |

**Language Education**

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| **Rheinland Privatschule**, Essen, Germany  German Language Course  **HLI Liberty**, MO, USA  English Language Course | Sep 2013 – Oct 2013  Sep 2006 – Dec 2006 |

**Language Skills**

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| **English**  **German**  **Korean** | Spoken and written proficiency in English (IELTS 7.5/ TOEFL 96/ TOEIC 935)  Basic grammatical and conversational knowledge of German  Native |

**References**

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| --- | --- | --- |
| **Minsoo Hahn**  **Jinsul Kim**  **Sung Park**  **Changwon Kim** | Professor, KAIST  Associate Professor, Chonnam National University  Expert UX Consultant, SK Telecom  Assistant UX Designer, Samsung Electronics | [mshahn2@kaist.ac.kr](file:///C:\Users\smmc\Documents\2014%20Application\20150526%20UCL\mshahn2@kaist.ac.kr)  [jsworld@chonnam.ac.kr](mailto:jsworld@chonnam.ac.kr)  [spica7601@partner.sk.com](mailto:spica7601@partner.sk.com)  [changwon1.kim@samsung.com](file:///C:\Users\smmc\Documents\2014%20Application\changwon1.kim@samsung.com) |