

Han-Jong Kim

Ph.D. Candidate

Dept. of Industrial Design, KAIST
Co.design:Inter.action Design Research Lab.
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Republic of Korea

Curriculum Vitae

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Education

- Ph.D. Candidate, Industrial Design**, GPA: 4.05/4.3 Mar 2015
Korea Advanced Institute of Science and Technology (KAIST) - Present
Co.design:Inter.action Design Research Lab.
Advisor: Tek-Jin Nam
Qualification: Jan 2016
- M.S., Industrial Design**, GPA: 3.94/4.3 Mar 2013
Korea Advanced Institute of Science and Technology (KAIST) - Feb 2015
Co.design:Inter.action Design Research Lab.
Advisor: Tek-Jin Nam
Thesis: *"Augmented Miniature-based Design Toolkit for User Experience in Interactive Space"*
- B.S., Industrial Design**, GPA: 3.67/4.3 Feb 2008
Minor in Management Science - Feb 2013
Korea Advanced Institute of Science and Technology (KAIST)
Advisor: Tek-Jin Nam

Experience and Projects

Professional Experience

- Contents Designer** Aug 2010
Contents Lab, Creative Center - Aug 2011
TicketMonster Inc., Korea

Funded Research Projects

- EDISON (Development of Computer Aided Design Application and User Interface for Interactive Products and Systems)** Jul 2014
Funded by Ministry of Science, ICT, and Future Planning, Korea - Present
Role: Software development and interface design of mechanism design software
- Development of Printer UX Map for Educational Vertical Market** May 2014
Funded by Samsung Electronics - Dec 2014
Role: UX research (interview, participatory design, data analysis)

UX-oriented Mobile Software Platform

Funded by Ministry of Knowledge Economy, Korea

Role: Supporting education for UX design methodology

Mar 2013

- Dec 2013

Research Interest

Human-Computer Interaction (HCI), User Interface Design, User Experience Design

Prototyping, Interaction Design, Research Through Design

Augmented Reality, Mixed Reality, Design Tool Development

Smart Environment, Interactive Space, Augmented Space

Skills

UX Design & Research technology probe, affinity diagramming, experience prototyping, concept generation, storyboarding, focus group, cultural probe, interview, usability testing

Prototyping & Programming Arduino, Android, Processing-JAVA, P5.js, THREE.js, C++, OpenCV, ARToolkit
Flash Action Script, Adobe Photoshop Script, WordPress, Liferay MVC Portlet

Basic Tools (Design) Rhinoceros, SolidWorks, Autodesk Alias, Inventor, AutoCAD, 123D Apps (Design/Make /Circuits), Adobe Photoshop, Illustrator, Premiere, Flash

Publications

Conference Proceedings (International)

Kim, H-J., Kim, J-W., Nam, T-J. miniStudio: Designers' Tool for Prototyping Ubicomp Space with Interactive Miniature, *In Proc. CHI Conference on Human Factors in Computing Systems (CHI '16)*, ACM Press (2016), 213-224.

Kim, J-W., **Kim, H-J.**, Nam, T-J. M.Gesture: An Acceleration-Based Gesture Authoring System on Multiple Handheld and Wearable Devices, *In Proc. CHI Conference on Human Factors in Computing Systems (CHI '16)*, ACM Press (2016), 2307-2318.

Demo, Poster & Video

Kim, H-J., Nam, T-J., Augmented Miniature Prototyping Toolkit for UX in Interactive Space, *In Proc. Extended Abstracts on Human Factors in Computing Systems (CHI '15 EA)*, ACM Press (2015), 2229-2234.

Kim, H-J., Nam, T-J., Muzlog: instant music transcribing system for acoustic guitarists, *In Proc. Extended Abstracts on Human Factors in Computing Systems (CHI '14 EA)*, ACM Press (2014), 451-454.

Kim, H-J., Lee, M-H., Goo, B-C., Nam, T-J., Xtempo: music polaroid for printing real-time acoustic guitar performance, *In Proc. Extended Abstracts on Human Factors in Computing Systems (CHI '13 EA)*, ACM Press (2013), 2827-2828.

Conference Proceedings (Domestic, Korea)

Kim, H-J., Kim, J-W., Nam, T-J. Development of Mechanism Design Software for Designing Interactive Products with Kinetic Movement, *In Proc. Korean Society of Design Science 2016 Spring (KSDS '16 Spring)*, 86-87.

Kim, H-J., Cha, S., Park, R., Nam, T-J., Lee, W., Lee, G., Mo-Bi: Contextual Mobile Interfaces through Bimanual Posture Sensing with Wrist-Worn Devices, *In Proc. Human Computer Interaction Korea (HCIK '16)*, Hanbit Media Inc. (2016), 94-99.

Kim, J-W., **Kim, H-J.**, Nam, T-J. An Interaction & Mechanism Design Workflow for Capstone Design Projects Based on a Top-Down Approach, *In Proc. Korean Society of Design Science 2015 Spring (KSDS '15 Spring)*, 184-185.

Kim, H-J., Lee, M-H., Nam, T-J. Music Polaroid for Printing Real-Time Acoustic Guitar Performance, *In Proc. Korean Society of Design Science 2013 Spring (KSDS '13 Spring)*, 134-135.

Awards

Distinguished Service Award, EDISON (EDucation-research Integration through Simulation On the Net) Project, KISTI (Korea Institute of Science and Technology Information) (2016)

Service on EDISON (educational platform of computational science & engineering) community

Best Paper Award, Human Computer Interaction Korea (HCIK '16)

Mo-Bi: Contextual Mobile Interfaces through Bimanual Posture Sensing with Wrist-Worn Devices

1st People's Choice Award, Student Innovation Contest in ACM Symposium on User Interface Software and Technology (UIST '14)

DreaMop: To Make Your Housework More Effective and Enjoyable

Grand Prix, KAIST Undergraduate Research Participation Program Award (2013)

Xtempo: Music Polaroid for Printing Real-time Acoustic Guitar Performance

Red Dot Design Award: Design Concept 2010

Lock-On: Bicycle Helmet with Lock

Book

Nam, T-J, Lee, S., Park, Y-W., Min, H., Baek, K-M., **Kim, H-J.**, UX for Mobile Software Platform, KAIST Press for Mobile Software Platform, ISBN: 978-89-89453-62-8.

Patents (Issued)

Apparatus for Print Out of Music Scores and Method Thereof (No. 10-1450054, Korea)

Multi-Functional Helmet that Locks the Bicycle and the Rack (No. 20-0461171, Korea)

Exhibition

Tokyo Designers' Week

Graduation Project Exhibition

Oct 2012
- Nov 2012

Teaching Assistant

Product Design Factors, Industrial Design, KAIST

Spring, 2016

Interaction Design, Industrial Design, KAIST

Fall, 2015

CAD & 3D Modeling, Industrial Design, KAIST

Spring, 2015

Interaction Design, Industrial Design, KAIST

Fall, 2014

CAD & 3D Modeling, Industrial Design, KAIST

Spring, 2014

Interaction Design, Industrial Design, KAIST

Fall, 2013

Product Design System, Industrial Design, KAIST

Spring, 2013