

# CURRICULUM VITAE

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## [ Career ]

### *Current Status:*

- **2015.03 – present**, Associate Professor, Dept. of Design, Seoul National University of Science & Technology

### *Teaching Experience:*

- **2009.03 – 2015.02**, Assistant Professor, Dept. of Design, Seoul National University of Science & Technology
- **2007.09 – 2008. 08**, Full Time Lecturer, Industrial Management Engineering, POSTECH
- **2004.09 – 2007.08**, Full Time Lecturer, Division of Industrial Design, Ewha Womans University
- **2005.09 – 2007.08**, Part-Time Lecturer, Dept. of Industrial Design, Seoul National University of Technology
- **1999.09 – 2003.08**, Part-Time Lecturer, Dept. of Industrial Design, Cheongju University

### *Other Professional Career:*

- **2000.07 – 2001.12**, Assistant Manager, Hanma-Eum Energy Science Institute
- **1999.04 – 2000.06**, CG Manager, TEAM Design – Creative Design Studio
- **1996.03 – 1999.03**, Research Designer, Vehicle Development & Eng. Dept. Technical Research Institute,

Hyundai Precision & Ind. Co., Ltd.

## [ Education ]

- **2002.03 – 2008.08**, Ph.D. in Dept. of Industrial Design, KAIST (Korea Advanced Institute of Science and Technology)
- **1994.03 – 1996.02**, M.S. in Dept. of Industrial Design, KAIST
- **1988.03 – 1992.02**, B.S. in Dept. of Industrial Design, KAIST

## [ Research Interest ]

- Interactive Design & Prototyping
- Robot & Mechanical Design
- Product Design
- Upcycling Design & Universal Design
- Digital Drawing & Modeling
- Car Styling

## [ Membership ]

- Korean Society of Design Science
- Korean Society of Basic Design & Art
- Korean Society for Emotion and Sensibility
- Korea Robotics Society

## [ Project Experience ]

- 2013.06. - 2015.05. Director of Contract Research Project, Development of Ultra Slim ArtRobot Create Platform for STEAM education, *Support by* Small and Medium Business Administration
- 2013.11. - 2014.09. Director of Participating Institution, Development of Universal User Interface Design Platform Technology of Smart Device and Its Business Model for Silver Age and Enriching Their information Experience in Public and Health Care, *Support by* Korea Evaluation Institute of Industrial Technology
- 2013.12. - 2014.02. Principal Investigator, Kiosk Design of Future Car Navigation, *Support by* Chasy Robotics, Inc.
- 2013.05. - 2013.09. Cooperation Researcher, Universal Design Guidelines for Cultural Facilities, *Support by* Ministry of Culture, Sports and Tourism
- 2012.04. - 2012.11. Principal Investigator, , Mobile Type Platform Development of FRC(Future Robotic

Computer), *Support by* Ministry of Trade, Industry and Energy

- 2011.11. - 2012.01. Principal Investigator, Design Development of Business VOIP Phone, *Support by* XENER SYSTEMS, INC.
- 2011.09. - 2012.08. Cooperation Researcher, Products & Service Design for Disaster Preparedness, *Support by* Korea Evaluation Institute of Industrial Technology
- 2011.04. - 2011.11. Principal Investigator, Design Development of FRC(Future Robotic Computer) Mobile Platform, *Support by* Ministry of Trade, Industry and Energy
- 2010.05. - 2011.04. Principal Investigator, Development of Creative Education Program for Convergence Design, *Support by* National Research Foundation of Korea
- 2010.03. - 2010.11. Principal Investigator, Prototype Design of FRC(Future Robotic Computer) Platform, *Support by* Ministry of Trade, Industry and Energy
- 2009.07. - 2010.06. Principal Investigator, The Development of the Platform of Information Appliances for the Expansion of Physical Interaction, *Support by* National Research Foundation of Korea
- 2006.12. – 2007.11. Principal Investigator, A Styling of Next Generation Humanoid Robot Platform. *Support by* Korea Institute of Industrial Technology Evaluation and Planning.
- 2006.10 – 2007.09. Civilian Type Quadruped Legged Robot Platform Design. *Support by* Electronics and Telecommunications Research Institute
- 2005.07 – 2006.04. Principal Investigator, Women's Bag Design & Brand Identity Development *Support by* Seoul Regional Office Small & Medium Business Administration
- 2005.03 – 2005.12. Principal Investigator, The Development of the Next Generation HUBO Design. *Support by* Ministry of Commerce Industry and Energy
- 2004.05. – 2005.08. Principal Investigator, Development of an Intelligent Virtual Cluster. *Support by* Hyundai Motor Company

### [ Courses Taught ]

- 185003, 185011 Basic ID(1), (2)
- 185019, 185029 ID Studio (1), (2)
- 185032 Living Product Design
- 185023, 185031 Interaction Design(1), (2)
- 185171, 185177 Industrial Capstone Design(1), (2)
- 185158 Interaction Design Project

## [ Books ]

- Kim, W. S. (2010). Automata Designer. Seoul: Flying-Pig Korea.
- Kim, W. S. (2010). Fly High. Seoul: Flying-Pig Korea.
- Kim, W. S. (2007). EZ-Automata Vol.1: Cam Mechanism & the Jurassic Dinosaurs. Seoul: Flying-Pig Korea.
- Ives, R. (2006). Kim, W. S. (Ed. And Trans.), Robot Mechanism [Cardboard Engineering Source Book]. Seoul: Flying-Pig Korea. (Original work published 2002)

## [ Selected Papers ]

- Wang, Z. X., Kim, W. S., Analysis of Design Influence Factors of World Sport Utility Vehicle (SUV) Brands, Korea Science & Art Forum Vol.20, 2015.06, pp.293-306.
- Kim, Y. M., Kim, W. S., Mobile advertisement platform development in customer's perspective, Design Convergence Study 46 Vol.13. no.3, 2014.06, pp.117-132.
- Kim, W. S., "Electronic Kit Design for Cardboard Automata", International Journal of Robots, Education and Art(IJREA), 4(1). 2014. pp.15-23.
- Kim, W. S., Open Source Hardware Design Using 3D Printer, Korea Design Knowledge Society, Vol.26, 2013.06, pp.113-124.
- Kim, W. S., VoIP Tablet Phone Design, Korea Design Knowledge Society, Vol.26, 2013.06, pp.189-200.
- Kim, W. S., Development of Creative Education Program for Convergence Design, Korea Design Knowledge Society, Vol.25, 2013.03, pp.387-395.
- Huh, W. W., Kim, W. S., Han, Y. S., Gu, S. H., Smartphone Application development strategy for Silver Generation, The Treatise on The Plastic Media, Vol.15, No.2, 2012.05, pp.221-230.
- Huh, W. W., Hong, S. K., Han, S. W., Kim, W. S., The Silver Generation acceptable impact on the smart phone's features, Design Convergence Study 33, Vol.11, No.2, 2012.02, pp.31-40.
- Huh, W. W., Hong, S. K., Han, S. W., Kim, W. S., A study about Emotional value factors of New Silver generation, Design Convergence Study 34, Vol.11, No.3, 2012.06, pp.3-12.
- Kim, W. S., Platform Design of Information Appliance for Effective Physical Interaction, Journal of Basic Design & Art, Vol.12, No.6, 2011.12, pp.99-111.
- Kim, W. S., Development of Electric Circuit Prototyping Tool Using Conductive Tape, Journal of Korean Society of Design Science, Vol.24, No.2, 2011.5, pp.141-152.
- Choi, Y. H., Kim, S. I., Kim, W. S., kim, H. I., Design Process Development for New Town UX Assessment of Road Transport Information - in the case of The Songdo New Town's Pedestrian, Journal of Digital Design, 2011.1, pp.789-802
- Kim, W. S., Lim, C. Y. & Kwon, E. S. (2008). The Development of Mechanical Design Education Program. The Bulletin of JSS, 55(4).

- Kim, W. S. (2007). The Design of Humanoid Robot Platform : Hubo. Journal of Korean Society of Design Science, 20(6), 13-16.
- Kim, W. S. & Choi, M. Y. (2006). The New Design Education Program for the Creative Mechanic Prototyping Method. Bulletin of Korean Society of Basic Design & Art, 7(4), 147-160.
- Kim, W. S. (2006). Emotional Agent. International Journal of Asia Digital and Design, 5, 11-19.
- Choi, M. Y. & Kim, W. S. (2006). A Study on Prototyping Tools for Interaction Design of Product. Bulletin of Korean Society of Basic Design & Art, 7(4), 651-662.
- Bae, S. H., Kobayashi, T., Kijima, R. & Kim, W. S. (2004). Tangible NURBS-curve Manipulation Techniques Using Graspable Handles on a Large Display. HCI Letters, 6(2), 81-90.
- Kim, W. S. (2004). A Study on the Development of the 3-Dimensional Digital Design Tool (3D3T). Journal of Korean Society of Design Science, 17(1), 241-252.
- Bae, S. H., Kim, W. S. & Kwon, E. S. (2003). Digital styling for designers: sketch emulation in computer environment. LNCS 2669. 690-700.
- Bae, S. H., Kijima, R. & Kim, W. S. (2003). Digital styling for designers: 3D plane- symmetric freeform curve creation using sketch interface. LNCS 2669. 701-710.

## [ Patent ]

- Kim, W. S. (2014). Assembling Model Combined With Electronic Circuit (Patent No. 1014042940000)
- Kim, W. S. (2013). Launcher for folding safety tripod and automobile comprising the same (Patent No. 1012597220000)
- Kim, W. S. (2013). Folding safety tripod and automobile comprising the same (Patent No. 1012593120000)
- Lee, J. G., Hong, Y. K., Kim, W. S. & Kim, J. H. (2007). Data Transmission Device and Method Thereof (Patent Application No. 2007-10913)
- Kim, W. S. (2006). Assembly Toy and Method for Assembling Thereof, (Patent Application No. 2006-135372)

## [ Exhibition ]

- Dragon Age(2012). Seoul Living Design fair. COEX. Seoul
- Leg Lamp(2012). Living Technology. INSA Art Center, Seoul.
- Table Lamp(2011). 2011 Cheongju International Craft Biennale Craft & Design Fair. Former tobacco processing plant, Cheongju
- Huroid (2006). Design Korea 2006. Shanghai Mart, Shanghai.
- Easy Automata (2006). Aging Friendly Design Innovation. Seoul Auction Center, Seoul.
- Huroid & Kinetic Frame (2006). The Mechanical Moving: From Automata to Robots. Hangaram Design Museum in Seoul Art Center, Seoul.

- Next Generation HUBO (2006). Robot. INSA Art Center, Seoul.
- HUBO & History of Robot (2005). Robots are Coming. National Science Museum, Daejeon.
- HUBO (2005). Gwangju Design Biennale 2005. Kimdaejung Convention Center, Gwangju.