

COMBINED M.S./Ph. D. STUDENT IN COMPUTER GRAPHICS LAB AT EWHA WOMANS UNIVERSITY

25, Nambusunhwan-ro 381-qil, Gangnam-qu, Seoul, Republic of KOREA, 06274

□ (+82) 10-3073-0715 | **S** yaesol91@ewhain.net

Research Interests __

Human Robot Interaction, Haptics, Virtual Reality, Motion Planning, Human Computer Interaction

Education _____

Ewha Womans University

Seoul, Korea

COMBINED M.S/Ph.D IN COMPUTER SCIENCE AND ENGINEERING

Mar. 2016 - CURRENT

Ewha Womans University

Seoul, Korea

B.S. IN COMPUTER SCIENCE AND ENGINEERING

Mar. 2012 - Feb. 2016

Experience _____

Ewha Womans University

Seoul, Korea

TEACHING ASSISTANT - "NUMERICAL METHODS"

Spring 2017, Spring 2016

• Graded all written assignments and responded to the questions of the students.

Ewha Womans University

Seoul, Korea

RESEARCH ASSISTANCE (PROF. YOUNG J. KIM)

Jan. 2016 - Dec. 2016

- Implemented a virtual moon experience system as a part of the virtual space exploration project.
- Researched encountered-type haptic rendering using 7-DoF manipulator.

Ewha Womans University

Seoul, Korea

TEACHING ASSISTANT - "COMPUTER GRAPHICS"

Fall 2016

- · Gave lectures on OpenGL basis.
- Graded all programming assignments and responded to the questions of the students.

Computer Graphics Lab, Ewha Womans University

Seoul, Korea

Undergraduate Intern

Mar. 2015 - Feb. 2016

- Researched virtual moon experiences with video-based crowd animation.
- Implemented motion-based character controller which maps the user motion and pre-computed animation.

Embedded Software Lab, Ewha Womans University

Seoul, Korea

Undergraduate Intern

Dec. 2014 - Feb. 2015

Jan. 2014 - Aug. 2014

• Worked on long-tail watchdog timer for high availability on STM32F4-based real-time embedded system.

SAMSUNG Electronics

INTERN AT VISUAL DISPLAY BUSINESS

Suwon, Korea

• Developed testing application for validating Tizen API on SAMSUNG Smart TV.

OCTOBER 24, 2019 YAESOL KIM · RÉSUMÉ

Technical Skills

Programming Languages: Experience with C, C++, C#, Java, Python, Matlab

Robotic Programming: Experience with KUKA IIWA, ROS, OMPL, Gazebo, Rviz

Motion Capture: Experience with Kinect v1, Kinect v2, Leap Motion, OpenCV

Virtual Reality: Experience with Unity3D, Oculus SDK

Others: Experience with OpenGL, RaspberryPi, Arduino, Android

Publications

International Journal

Yaesol Kim, Hyun Jung Kim, Young J. Kim, Encountered-type haptic display for large VR environment using per-plane reachability maps, Computer Animation and Virtual Worlds (CASA 2018 Special Issue), 2018 (appeared as the cover image of CAVW).

Domestic Patent

Young J. Kim, Yaesol Kim, 2016, Virtual space experiencing apparatus, Registration No. 1017511760000.

Domestic Conference Paper

Yaesol Kim, Gahye Park, Yun-hyeong Kim, Young J. Kim, Virtual Moon Experiences with Video-based Crowd Animation, HCI Korea, Jan 2016.

Domestic Journal

Hayeon Choi, Jiwan Yun, Seoyeon Park, **Yesol Kim**, Sangsoo Park, Long-Tail Watchdog Timer for High Availability on STM32F4-Based Real-Time Embedded Systems, Journal of Korea Multimedia Society Vol. 18, No. 6, June 2015, pp. 723-733.

Presentation

Korea Haptics Community Workshop

Seoul, Korea

Aug. 2019

POSTER PRESENTATION

• Yaesol Kim, Young J. Kim, Encountered-type Haptic Texture Display using Collaborative Robot

Korea Robotics Society Annual Conference

Gangwon-do, Korea

POSTER PRESENTATION

Jan. 2018

• Yaesol Kim, Young J. Kim, Encountered-type Haptic Display for VR Environment using Per-plane Reachability Maps

IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)

Daejeon, Korea Oct. 2016

POSTER PRESENTATION

• Yaesol Kim, Young J. Kim, Versatile Encountered-type Haptic Display for VR Environment using a 7-DoF Manipulator

Korea Software Conference

Gangwon-do, Korea

POSTER PRESENTATION

Oct. 2015

• Jaen Ku, Yaesol Kim, Yoonsun Lim, Sooyeol Yang, Real-time Compensation Algorithm for Localization Using iBeacon

Korea Computer Graphcis Society

Gangwon-do, Korea

POSTER PRESENTATION

Jul. 2015

• Yun-hyeong Kim, Yaesol Kim, Gahye Park, Young J. Kim, Video-based Crowd Animation on Moon Surface

Honors & Awards _____

2015	Bronze Prize and Scholarship for Portfolio Contest , Accreditation Board for Engineering	Seoul. Korea
	Education of Korea	Seoui, Noted
2015	Gold Prize for Portfolio Contest, Dep of CSE, Ewha Womans University	Seoul, Korea
2015	Bronze Prize for Capstone Design Contest, Dep of CSE, Ewha Womans University	Seoul, Korea

Extracurricular Activity _____

Deep Learning Tutorials, National Association of Cognitive Science Industries

Seoul, Korea

Apr. 2016

STUDENT

• Solve the given problems using deep learning tools such as Caffe, Theano, and TensorFlow.

Arduino Tutorial, Rnu Corporation

Seoul, Korea

Jan. 2016

STUDENT

• Complete the curriculum on Arduino & IoT sensing and wireless control.

Seoul Accord Tutor Program

Seoul, Korea

Jun. 2015 - Aug. 2015

TUTOR

• Acted as a tutor on embedded system and experiments.

YDP Education for scientifically gifted student

Seoul, Korea

TEACHING ASSISTANT

Jun. 2015

• Gave a lecture on virtual reality and tutorial class about Unity 3D.

E-COPS Security club

Seoul, Korea

MEMBER

Sep. 2013 - Jun. 2015

• Gained knowledge about information security and cryptography.

Hansori Band club

Seoul, Korea

MEMBER

Mar. 2012 - Sep. 2012

• Took an electronic guitar session.