

# Yoonsang Kim

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## RESEARCH INTERESTS

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Computer vision, Object recognition, Motion tracking, Pose prediction, Cognition, Machine learning,  
Natural language processing, Human-robot interaction

## EDUCATION

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- Mar. 2010 ~ Feb. 2017    **Soongsil University / Seoul, Korea**  
*Undergraduate Student (School of Computer Science and Engineering)*
- Bachelor of Science in Engineering, Overall GPA of 3.47 / 4.0 (90.1 / 100)
- Mar. 2015 ~ Jul. 2015    **Darmstadt University of Applied Sciences / Darmstadt, Germany**  
*Exchange Student (School of Computer Science)*

## PROJECTS

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- Jun. 2016 ~ Dec. 2016    **Virtual Desktop without an I/O device**  
*Developed as a contestant, under the supervision of Prof. Jeongjin Lee & Sangjun Lee for the Soongsil University Software Competition 2016, Soongsil University, Korea*
- Combined mixed reality with a remote desktop and motion recognition to use computer in a virtual reality controlled only by hand
  - Used Samsung Gear VR as a display, and a Virtual Graphic Driver for a remote desktop display output, and OpenCV to analyze user's hand gestures
- Oct. 2016 ~ Oct. 2016    **Airplane Shooting Game**  
*Developed as an undergraduate exchange student, under the supervision of Prof. Paul Bourke & Team Mentor Susan McKeever for DIT's Global Classroom Class*
- Classic airplane game with the objectives of destroying the enemy base and counter-forces
  - Collaborated with computer science students from Finland, Korea, and Ireland
  - Used Unity5 for the development phase, focused more on the overall documentation process and weekly real-time web meetings
- Jan. 2016 ~ Mar. 2016    **Dream Palette**  
*Developed as a contestant, under the supervision of Student Mentor Seungjun Jeong for Microsoft's Imagine Cup 2016, Korea*
- Rapid paced game combined with the concept of Subtractive Color Mixing to enhance children's understandings of colors
  - Collaborated with students from Computer Graphic Design and Computer Science
  - Utilized Unity5 to develop the game, and After Effects and Photoshop to create the images used in the game
- Oct. 2015 ~ Dec. 2015    **Cell Counter**  
*Developed as a contestant, under the supervision of Prof. Jeongjin Lee for Soongsil University IT·BT Convergence Software Competition 2015, Soongsil University, Korea*
- Analyzed cells to simplify the arduous process of cell counting for researchers
  - Collaborated with Biomedical Science and Computer Science majors
  - Utilized OpenCV and a manual labelling process to analyze the images, and C#(WPF) for the interface of the program
- Mar. 2015 ~ Jul. 2015    **Coding Assignment Submission Website**  
*Developed as an undergraduate exchange student, under the supervision of Prof. Michael Roth for the Project System Development Class, Darmstadt University of Applied Sciences, Germany*
- Allows enrolled students to submit code and provides professors with the status of submission as well as code errors
  - Used PHP for the back-end and HTML, CSS, Javascript, jQuery for the front-end

## **PUBLICATIONS**

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[1] **Yoonsang Kim**, Geunyeop Ha, Sangjun Lee. 2017. Flexible Remote Control Application for Virtual Reality using Virtual Graphic Driver and OpenCV. International Journal of Applied Engineering Research(IJAER), Volume 12, Number 19, pp. 8952-8955

[2] **Yoonsang Kim**, Geunyeop Ha, Dongyeon Kim, Sangjun Lee. 2016. Design and Implementation of Remote Control Application in Virtual Reality Environment using a Virtual Graphic Driver and OpenCV. 2016 KIISE Winter Conference

## **SCHOLARSHIPS**

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Fall.	2016	Award Scholarship for Software Competition, Soongsil University
Winter.	2015	Award Scholarship for IT·BT Software Convergence Engineering Competition, Soongsil University
Spring.	2015	Government Scholarship for ICI-ECP Exchange Student Program, Soongsil University
Fall.	2014	Academic Excellence Scholarship, Soongsil University

## **HONORS AND AWARDS**

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Oct.	2016	Dean's Award in Software Competition, Soongsil University
Mar.	2016	National Semi-Finalist in the Imagine Cup 2016, Microsoft
Dec.	2015	Gold Award in IT·BT Software Convergence Engineering Competition, Soongsil University

## **RELATED EXTRACURRICULAR ACTIVITIES AND EXPERIENCE**

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Apr.2016 ~ Dec. 2016	Soongsil University Exchange Student Mentoring Program, Seoul, Korea <i>Student Mentor for Darmstadt University of Applied Sciences</i> <ul style="list-style-type: none"><li>● Helped exchange students to obtain information about and adjust to foreign environments</li></ul>
Oct. 2016 ~ Oct. 2016	GMV (Global Mobile Vision), Gyeonggi-do, Korea <i>Student Visitor</i> <ul style="list-style-type: none"><li>● Interviewed the exhibitors on the potential of Virtual Reality and the trends of Computer Science</li></ul>
Jan. 2016 ~ Mar. 2016	Worldwide Student Software Competition(Microsoft Imagine Cup) Team CUBLERS, Seoul, Korea <i>Team leader</i> <ul style="list-style-type: none"><li>● Participated on the project's design, development phase and presentation</li><li>● Held weekly meetings to share ideas and acquire possible suggestions for modification of the program</li><li>● Adjusted the amount of tasks according to the members' capabilities</li><li>● Gave a presentation at the exhibition booth for an audience</li></ul>
Oct.2015 ~ Dec. 2015	Soongsil University Software Competition (IT·BT Convergence Contest) Team CT4, Seoul, Korea <i>Team leader</i> <ul style="list-style-type: none"><li>● Participated on the project's design, development phase and presentation</li><li>● Distributed tasks according to members' capabilities</li></ul>
Jan. 2015 ~ Jan. 2015	CES (Consumer Electronics show), Las Vegas, United States <i>Student Visitor</i> <ul style="list-style-type: none"><li>● Participated as a visitor and observed the future trends of Computer Science</li></ul>
Jan.2013 ~ Jan. 2014	Soongsil University Soccer Team, Seoul, Korea <i>Captain</i> <ul style="list-style-type: none"><li>● Supported the team members</li><li>● Managed members to adhere to the coach's tactics</li></ul>
Apr.2011 ~ Jan. 2013	The 31 <sup>st</sup> Infantry Division Engineering Battalion, Human Resource Division, Gwangju, Korea <i>Financial &amp; Personnel Administrator</i> <ul style="list-style-type: none"><li>● Supervised monthly salary payment for officers &amp; soldiers</li><li>● Managed human resources</li><li>● Basic infantry training</li></ul>

## **CERTIFICATES & SKILLS**

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**Language** Native in Korean

English proficiency with TOEFL: 110 (27/27/28/28)  
GRE score (Verbal, Quantitative, Writing): 155 / 163 / 4.0  
German proficiency level (A1: Beginner level)

**Computer** MOS (Microsoft Office Specialist) 2010 Master Certificate  
Adobe Photoshop CS6 Certificate

## **TECHNICAL SKILLS**

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Advanced	C, C++, Unity5(GameEngine)
Intermediate	C#, C++ (MFC / WINAPI), Java
Moderate	PHP, Python, Android, JavaScript, HTML, CSS