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Juyong Kim

Date of Birth: 21/5/1990

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Education

- | | |
|---|---------------------------------|
| Seoul National University (GPA: 4.08/4.3 GPA in major: 4.12/4.3)
• Undergraduate Student in Electrical Engineering and Computer Sciences | Mar. 2008 – Feb. 2015(Expected) |
| Gyeongnam Science High School
• A special purpose high school for scientifically gifted students.
• Physics Major. 1 year early graduation | Mar. 2006 – Feb. 2008 |

Work and Research Experiences

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|--|-----------------------|
| IR-Link, Seoul, Korea
• Software Engineer (As alternative military service)
• Mobile Web Application Development / Windows Application Development (See Skills below.) | Nov. 2012 – Jul. 2014 |
| ITWell, Seoul, Korea
• Software Engineer (As alternative military service)
• Windows CE Application Development | Sep. 2011 – Oct. 2012 |
| Cyber-Physical Systems Lab., Seoul National University
• Research Assistant
• Robotics, Computer Vision
• "Actionable Topological Mapping for Navigation Using Nearby Objects" (See Publications below.) | Jan. 2011 – Sep. 2011 |

Honors and Awards

- | | |
|---|-----------------------------|
| Samsung Scholarship
• Covering tuition and living expenses up to \$50,000/year until my Ph.D. degree. (Certificate) | Sep. 2015 – up to Aug. 2020 |
| Silver Prize in 25th Global Software Contest Exhibit
• Hosted by Ministry of Science ICT and Future Planning, Korea.
• Mobile Voting Service (MVS - Korean) (Certificate) | Dec. 2013 |
| National Science and Engineering Scholarship
• Full tuition & fees during my college life, Funded by Korea Student Aid Foundation. | Mar. 2008 – Present |
| Physics Honor Class (1, 2)
• Top 20 students among the freshman admitted to Seoul National University. | 2008 |
| Korea Physics Olympiad
• Silver Medal (Certificate) | Dec. 2007 |
| JeongSan Science Talent Scholarship
• \$3,000/year during my high school years, funded by JeongSan Scholarship Foundation. | 2006 – 2007 |

Publications

- International Conferences**
- J. Kim, **J. Kim**, S. You, Y. Oh, and S. Oh, "Actionable Topological Mapping for Navigation Using Nearby Objects," in *Proc. of the IEEE International Conference on Automation Science and Engineering (CASE)*, Aug. 2012.

Research Interests

- Computer Vision, Machine Learning, Artificial intelligence, Robotics

Teaching Experiences

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|--|--------------------------------|
| Tutor, Seoul National University
• Selected as a Physics tutor | 1 st semester, 2010 |
| Tutor, Gyeongnam Science High School | Jul. 2008, Jan. 2009 |

- Selected as a Physics tutor

Skills

Relevant Coursework

- 420.314 Introduction to Random Variables Processes
- 420.211 Programming Methodology
- 420.310 Fundamentals of Control Engineering
- 446.345 Introduction to Robot Engineering
- 420.405 Design Project for Electrical Devices & Systems
- 430.457 Introduction to Intelligent Systems
- 420.216 Linear Algebra for Electrical Systems
- 420.327 Data Structures and Algorithms
- 420.456 Advanced Control Techniques
- 4190.408 Artificial Intelligence
- 430.714 Estimation Theory

Programming Language/Library

- C++, Java, C#, MATLAB, Mathematica, SQL, Verilog.
- OpenCV library, MFC, Web development (w. Spring Framework), .Net Application, HTK Speech Recognition Toolkit, Android, etc.