Juyong Kim

Date of Birth: 21/5/1990
248-35, Sangdae 1-dong, Jinju-si, Gyeongsangnam-do, 660-806, Republic of Korea
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Education

Seoul National University (GPA: 4.06/4.3 GPA in major: 4.12/4.3)   Mar. 2008 – Feb. 2015
· Undergraduate Student in Electrical and Computer Engineering

Gyeongnam Science High School   Mar. 2006 – Feb. 2008
· A special purpose high school for scientifically gifted students.
· Physics Major. 1 year early graduation

Work and Research Experiences

IR-Link, Seoul, Korea   Nov. 2012 – Jul. 2014
· Software Engineer (As alternative military service)
· Mobile Web Application Development / Windows Application Development (See Skills below.)

ITWell, Seoul, Korea   Sep. 2011 – Oct. 2012
· Software Engineer (As alternative military service)
· Windows CE Application Development

Cyber-Physical Systems Lab., Seoul National University   Jan. 2011 – Sep. 2011
· Research Assistant
· Robotics, Computer Vision
· "Actionable Topological Mapping for Navigation Using Nearby Objects" (See Publications below.)

Honors and Awards

Samsung Scholarship   Sep. 2015 – up to Aug. 2020
· Covering tuition and living expenses up to $50,000/year until my Ph.D. degree. (Certificate)

Silver Prize in 25th Global Software Contest Exhibit   Dec. 2013
· Hosted by Ministry of Science ICT and Future Planning, Korea.
· Mobile Voting Service (MVS - Korean) (Certificate)

National Science and Engineering Scholarship   Mar. 2008 – Present
· Full tuition & fees during my college life, Funded by Korea Student Aid Foundation.

Physics Honor Class (1, 2)   2008
· Top 20 students among the freshman admitted to Seoul National University.

Korea Physics Olympiad   Dec. 2007
· Silver Medal (Certificate)

JeongSan Science Talent Scholarship   2006 – 2007
· $3,000/year during my high school years, funded by JeongSan Scholarship Foundation.

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

· Artificial intelligence, Machine Learning, Computer Vision, Robotics

Teaching Experiences & Extracurricular Activities

Tutor, Seoul National University   1st semester, 2010
· Selected as a Physics tutor

Tutor, Gyeongnam Science High School   Jul. 2008, Jan. 2009
· Selected as a Physics tutor

President, Neophysics, Gyeongnam Science High School   Oct. 2006 – Feb. 2008
· Club for students gifted in physics

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
· 430.659 Topics in Computer and VLSI(Machine Learning)

· 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
· 430.711A Introduction to Computer Vision

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.