SEUNGKOOK YUN

Senior Software Engineer SRI International 333 Ravenswood Ave, Menlo Park, CA	Phone: +1-408-747-9316 Email: yunsk@csail.mit.edu http://people.csail.mit.edu/yunsk
EDUCATION Massachusetts Institute of Technology PhD, Computer Science and Artificial Intelligence Laboratory Massachusetts Institute of Technology M.S., Computer Science and Artificial Intelligence Laboratory Gurses: Under-actuated Robotics, Advanced Algorithm, Advances in Computer Vision Networks, Statistical Learning Theory and Applications, Probabilistic Systems Analysis Korea Advanced Institute of Science and Technology (KAIST) M.S., Mechanical Engineering GPA 3.9/4.3 Korea Advanced Institute of Science and Technology (KAIST) P.S. Machanical Engineering	Cambridge, MA June 2010 Cambridge, MA February 2009 on, Machine Learning, Computer Taejon, Korea February 2000 Taejon, Korea Exbruery 1009
SKILLS Software: C/C++ (proficient), JAVA (proficient), Python (familiar), MATLAB, CATIA, SolidV Hardware: DSP, RS-232, CAN Languages: fluent in English, fluent in Korean, familiar with Japanese	Works
EXPERIENCE SRI International Senior Software Engineer	Menlo Park, CA 2013-current
Honda Research Institute U.S. Mountain View, CA 2010-2013 Scientist 2010-2013 • Working on algorithms for emergency plans of humanoid robots such as reactive stepping and fall control. Developing S/W interface to connect the controller to simulators and robot hardware such as NAO and ASIMO.	
 Distributed Robotics Lab, Massachusetts Institute of Technology <i>Research Assistant</i> Led the coordinated construction project where a team of robots with assembly and delivery tasks cooperate to build a target structure. Designed the algorithms for dividing the total workload equally to each robot and for robust construction. Proposed the algorithm to optimally cover a graph in a distributed way. Proved convergence and stability of the algorithm. Devised the distributed matching algorithm between two set of nodes on a graph. Applied the algorithm to optimally relocate a group of the truss climbing robots in a distributed fashion. Used JAVA threads to secure the distributed system. Extended the distributed matching algorithm to assemble the multiple robots with bars into a chained structure that can reconfigure itself. Successfully implemented the self-assembly by the truss climbing robots. 	
 Honda Research Institute U.S. <i>Researcher (Internship)</i> Created the world first algorithm for safe fall of a humanoid. Tested on the dynamic model 	Mountain View, CA 2008 of ASIMO.
 Intelligent Robotics Research Center, Korea Institute of Science and Technology Research Scientist Implemented a virtual tour of Korean heritages by wearing a tactile glove and a haptic devia Integrated S/W components of computer vision, navigation and manipulation on RT Linux service to the several presidents of the world in the Asia Pacific Economic Cooperation (AF) 	Seoul, Korea 2003-2006 ce in the 3D display. . Successfully demonstrated drink PEC) 2005.
 R&D Center, KIA Motors <i>Research Engineer</i> Modeled 3D components for the power-train system. Trained professionally for mechanical 	Kwangju, Korea 2000-2002 design by CAD.
AWARDS AND HONORS The Samsung Scholarship for PhD The bronze award in Korea Olympiad in Computer programming The gold award in Kyunggi state Olympiad in Computer programming PUBLICATION: 6 Journal/magazine papers 21 Conference papers 15 Patents	2005 1993 1993

Yun, SeungKook