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EDUCATION

PhD in Robotics Carnegie Mellon University, Robotics Institute, Pittsburgh, PA	In Progress
Master of Science in Robotics Carnegie Mellon University, Robotics Institute, Pittsburgh, PA	December, 2011
Master of Science in Mechanical Engineering Georgia Institute of Technology, School of Mechanical Engineering, Atlanta, GA	May, 2010
Master of Science in Electrical and Computer Engineering Georgia Institute of Technology, School of Electrical & Computer Engineering, Atlanta, GA	May, 2009
Bachelor of Science in Computer Science Georgia Institute of Technology, School of Interactive Computing, Atlanta, GA	May, 2008
Bachelor of Science in Electrical Engineering Georgia Institute of Technology, School of Electrical & Computer Engineering, Atlanta, GA	May, 2008

CERTIFICATIONS

Amateur Radio License (Element 3 – General Class) Federal Communications Commission (FCC)	January, 2009
ABET Engineer-In-Training (EIT) Certification in Electrical Engineering Georgia State Board of Registration for Engineer and Land Surveyor	April, 2008
The Protection of Human Research Subjects American Association for Laboratory Animal Science (AALAS)	December, 2006

RESEARCH EXPERIENCES

August, 2010 - Present	Research Assistant to Chris Atkeson, CMU
2009 - 2010	Research Assistant to Mike Stilman, Georgia Tech
2007 - 2009	Research Assistant to Magnus Egerstedt and Ayanna Howard, Georgia Tech

PUBLICATIONS

Journals

Brian S. Smith, Ayanna M. Howard, John-Michael McNew, Jiuguang Wang, and Magnus B. Egerstedt. Multi-Robot Deployment and Coordination with Embedded Graph Grammars. *Autonomous Robots*, 26:79-98, January 2009. [bib | DOI | .pdf]

Conferences

Kasemsit Teeyapan, Jiuguang Wang, Tobias Kunz, and Mike Stilman. Robot Limbo: Optimized Planning and Control for Dynamically Stable Robots Under Vertical Obstacles. In 2010 IEEE International Conference on Robotics and Automation, pages 4519-4524, Anchorage, Alaska, USA, May 2010. [bib | .pdf]

Mike Stilman, Jiuguang Wang, Kasemsit Teeyapan, and Ray Marceau. Optimized Control Strategies for Wheeled Humanoids and Mobile Manipulators. In 9th IEEE-RAS International Conference on Humanoid Robots, pages 568-573, Paris, France, December 2009. [bib | DOI | .pdf] [best paper award finalist]

Jiuguang Wang, Philip D. Rogers, Lonnie T. Parker, Douglas A. Brooks, and Mike Stilman. Robot Jenga: Autonomous and Strategic Block Extraction. In 2009 IEEE/RSJ International Conference on Intelligent Robots and Systems, pages 5248-5253, St. Louis, Missouri, USA, October 2009. [bib | DOI | .pdf]

Jiuguang Wang, Benjamin T. Brackett, and Ronald G. Harley. Particle Swarm-Assisted State Feedback Control: From Pole Selection to State Estimation. In 2009 American Control Conference, pages 1493-1498, St. Louis, Missouri, USA, June 2009. [bib | DOI | .pdf]

Brian S. Smith, Jiuguang Wang, Magnus B. Egerstedt, and Ayanna M. Howard. Automatic Formation Deployment of Decentralized Heterogeneous Multi-Robot Networks with Limited Sensing Capabilities. In 2009 IEEE International Conference on Robotics and Automation, pages 730-735, Kobe, Japan, May 2009. [bib | DOI | .pdf]

Andrew Klesh, Shintaro Taniguchi, Caley Burke, Alessondra Springmann, Megan Cartwright, Rajeev Gadre, Jiuguang Wang, Lev Horodyskyj, Keith Milam, Nicholas Moskowitz, Jonathon Oiler, Michael Pagano, Daniel Ostrowski, Ramsey Smith, Amy Townsend-Small, Charles Budney, Kongpop U-yen, Steve Vance, Joseph Westlake, and Kris Zacny. SHOTPUT: A JPL Planetary Science Summer School Study. In 2009 IEEE Aerospace Conference, Big Sky, Montana, USA, March 2009. [bib | DOI | .pdf]

Brian S. Smith, Jiuguang Wang, and Magnus B. Egerstedt. Persistent Formation Control of Multi-Robot Networks. In 47th IEEE Conference on Decision and Control, pages 471-476, Cancun, Mexico, December 2008. [bib | DOI | .pdf]

Poster

Charles Budney, Caley Burke, Megan Cartwright, Rajeev Gadre, Lev Horodyskyj, Andrew Klesh, Keith Milam, Nicholas Moskowitz, Jonathon Oiler, Daniel Ostrowski, Michael Pagano, Ramsey Smith, Alessondra Springmann, Shintaro Taniguchi, Amy Townsend-Small, Kongpop U-yen, Steven Vance, Jiuguang Wang, Joseph Westlake, and Krzysztof Zacny. SHOTPUT: A Mission Proposal to Study Composition and Origins of Small Bodies in the Outer Solar System Through Fly-by and Impactor Science. In American Geophysical Union Fall Meeting Abstracts, pages C1426+, December 2008. [bib | .pdf]

Alessandra Springmann, Caley Burke, Megan Cartwright, Rajeev Gadre, Lev Horodyskyj, Andrew Klesh, Keith Milam, Nicholas Moskovitz, Jonathon Oiler, Daniel Ostrowski, Michael Pagano, Ramsey Smith, Shintaro Taniguchi, Amy Townsend-Small, Kongpop U-yen, Steven Vance, Jiuguang Wang, Joseph Westlake, and Krzysztof Zacny. Designing a New Frontiers-class Trojan/Centaur Reconnaissance Mission: A JPL Planetary Science Summer School Study. In American Astronomical Society Division for Planetary Sciences Meeting Abstracts, volume 40, pages 18.09-+, September 2008. [bib | .pdf]

SKILLS

Languages: C/C++, Objective-C, C#, Java, LaTeX, Python, Smalltalk/Squeak
Scripts: ASP.NET, CSS, JavaScript, PHP, XHTML, XML, XSLT
Computation: Mathematica, MATLAB/Simulink
Design: AutoCAD, LabView, MultiSim, ModelSim, MiniTab, OrCAD, Quartus/MAX+PLUS
Multimedia: Captivate, Fireworks, Illustrator, InDesign, Photoshop, Premiere
IDEs: Eclipse, Dreamweaver, Expression Web, Visual Studio, Xcode

SERVICE

Reviewer

IEEE Transactions on Evolutionary Computation	2009
IEEE Robotics and Automation Magazine	2008
IEEE International Conference on Robotics and Automation	2008, 2009, 2010, 2011
IEEE-RAS International Conference on Humanoid Robots	2010

Volunteer

Robotics: Science and Systems	2007
Hybrid Systems: Computation and Control	2008

AWARDS

2010 NSF Graduate Research Fellowship
Best Paper Award Finalist - 2009 IEEE-RAS International Conference on Humanoid Robots
2009 SAIC Student Paper Competition Best Paper Award - Runner Up
2007 President's Undergraduate Research Award
The National Dean's List
The United States Achievement Academy Collegiate All-American Scholar

PROFESSIONAL AFFILIATIONS

Institute of Electrical and Electronics Engineers (IEEE)	Piscataway, NJ
Association for Computing Machinery (ACM)	New York, NY
IEEE Robotics and Automation Society	
IEEE Controls Systems Society	