## **\* VITAE OVERVIEW**

CONTACT INFORMATION	Arash Soleimani, Ph.D. Candidate Member – The Institute for Intelligent Materials, Systems & Environments Clemson University Lee 1-162, Clemson, SC 29634-0503 USA eml. <u>arashs@clemson.edu</u>   tel. <u>270-559-2820</u>   web. <u>www.cu-imse.org</u>
KEY WORDS	Key words defining my interests, experiences and ambition: Design, Research, Creative Design, Architectural Design, Usability Methods, Human-Computer Interaction, Tangible/Physical Computing, Cyber-Physical Systems, Architectural Robotics, Human Factors, and Learning Science (CyberLearning)
EDUCATION 2015	<b>Ph.D., Planning Design and the Built Environment</b> (Pending) Clemson University School of Architecture, Clemson SC, USA Estimated completion date: August, 2015
Advisors:	Keith E. Green, Ian D. Walker, Christina Gardner-McCune, Danielle Herro
Thesis:	CyberPLAYce: A Play Space of Creative Intelligent Tools Promoting Personal and Computational Expression for Early Learners.
Abstract:	CyberPLAYce is a novel, interactive-computational construction kit comprised of hand-sized, magnetic modules, and rectangular panels that receive the modules and serve as physical building blocks for constructing cyber-physical environments imagined by children. CyberPLAYce employs four evaluation frameworks through an iterative design process including, usability studies, participatory design, ethnographic observation, and formative assessment.
2010	Master of Architecture University of Nottingham Department of Architecture and Built Environment, Nottingham, Nottinghamshire, UK
Advisor:	Jonathan Hill
Thesis:	Responsive and Interactive Environments in Museums: Managing Responsiveness and Interactivity within Museums and Exhibitions in a New Fashion.
Abstract:	In this thesis, the importance of interactive environments is leveraged by considering both traditional and modern technologies of interaction. The thesis examines the possibilities and challenges faced in the integration of interactive technologies within museums by considering theories and historical precedents underlying <i>interaction design</i> in exhibitions and museums.
2008	<b>Bachelor of Architectural Engineering</b> Art University of Isfahan School of Architecture and Urban Design, Isfahan, Iran
Advisor:	Mohammad Omoumi
Thesis:	The House of Photography: An Architectural Space of Learning, Experiencing and Viewing Photography.

AWARDS 2013-14	The Honor Society of Phi Kappa Phi
	Clemson University, Clemson SC, USA Awarded the <i>Honor Society if Phi Kappa Phi</i> for excellence in research and GPA.
2012-15	<b>Clemson University Graduate Assistantship</b> Clemson University, Clemson SC, USA Awarded a <i>Clemson University Graduate Assistantship</i> for excellent qualifications and experience in the field of architecture.
2008 PUBLICATIONS	<b>Chancellor's Appreciation Letter</b> Art University of Isfahan, Isfahan, Iran Awarded <i>Chancellor's Letter of Appreciation</i> for excellence in architectural design and research.
Books	
2013	Arash Soleimani, <b>Responsive and Interactive Environments in</b> <b>Museums: Managing Responsiveness and Interactivity within Museums and</b> <b>Exhibitions in a New Fashion</b> , Lambert Academic Publishing, Deutschland, Germany.
Papers & Videos 2015	Soleimani, A., Green, K. E., Walker, I. D., Gardner-McCune, C., Herro, D. "CyberPLAYce, a Tangible Storytelling Tool: Results from an Empirical Study with 8-10-year-old Co-Designers." In <i>Proceedings of TEI'15, the ACM</i> <i>conference on Tangible, Embedded and Embodied Interaction</i> , Stanford, CA, USA, (Pending).
2014	Soleimani, A., Green, K. E., Walker, I. D., Gardner-McCune, C., Herro, D. "CyberPLAYce A Play Space of Creative, Intelligent Tools Promoting Personal and Computational Expression for Early Learners." In <i>Proceedings</i> of DIS'14, the ACM conference on Designing Interactive Systems, Vancouver, B.C., Canada, pp. 191-194. (Doctoral Consortium – only nine students were accepted to the DC program amongst the entire participants around the world, and the conference organizers covered the registration fee for the nine participants).
2014	Soleimani, A., Smith, K., Zeng, J., Green, K. E., Herro, D., Santiago, J., Sharma. S. Tonapi, M., Vijaykumar, A., Walker, I., & Garder-McCune, C. "Learning with CyberPLAYce; a Cyber-Physical Learning Environment for Elementary Students Promoting Computational Expression." In <i>Proceedings</i> of CHI'14: the ACM Conference on Human Factors in Computing Systems, Toronto, Ontario, Canada, pp. 165-166, (Archived Video).
2013	Schafer. G, Green, K. E., Walker, I. D., Lewis, E., Fullerton, S., Soleimani, A., Norris, M., Fumagali, K., Zhao, J., Allport, R., Zheng, X., Gift, R. and Padmakumr, A. <b>"Designing the LIT KIT, an Interactive, Environmental,</b> <b>Cyber-Physical Artifact Enhancing Children's Picture-book Reading."</b> <i>In</i> <i>Proceedings of IDC'13: the ACM Conference on Interaction Design and</i> <i>Children</i> , New York, pp. 281-284.

## PUBLICATIONS (continued)

(continued)	2010	Soleimani, A., <b>Wind Towers</b> – Thesis-Design Project Competition: Sustainable Tall Buildings, <i>The Council on Tall Buildings and Urban Habitat</i> .
TEACHING	2012-15	Lecturer (Teaching Assistantship) Clemson University School of Architecture, Clemson SC, USA
		ARCH 101– Introduction to Architecture Introduction to the principles of architectural design. Collaborative foundation studio offering instruction in the specific skills of formal composition, visual communication, oral presentation, and computer literacy.
		ARCH 151 – Architecture Communication I First design studio focusing on the ability of understanding and applying the standard conventions of various graphic techniques and emphasizing on iterative process, high craft, terminology, visual communication, modeling and time- management.
		ARCH 252 – Architecture Communication II Architectural analysis and design problems with a focus on understanding site and the context of architecture. Specific investigation of place, environmental conditions, and how a building forms a relationship with landscape.
		ARCH 401 – Architectural Portfolio Senior undergraduate seminar cultivating graphic communication skills and the development a cohesive design identity. Students develop an architectural brand through a suite of portfolios (physical and digital, academic and professional, info-graphic and three-dimensional), and are guided to develop a practice of indexing, communicating and evaluating their design artifacts.
		ARCH 452 – Synthesis Studio Senior undergraduate architectural studio emphasizing an iterative, exploratory design process, the development of design concepts, and critical evaluation and discourse. Exploration through precedent research, site mapping / analysis, programming and conceptual development, culminating in a complex architectural proposal in an urban context.
		<ul> <li>ARCH 868 – Architectural Robotics (co-taught)</li> <li>Graduate level architectural studio focusing on understanding, developing and testing robotic systems for the built environment. Collaborative teams of Ph.D., M.S. and M.Arch students from Architecture and Electrical and Computer Engineering developed working robotic prototypes responsive to challenges and opportunities of living in the built and natural environments today.</li> </ul>
	2013-14	Student Instructor Clemson University School of Architecture, Clemson SC, USA
		<i>EUREKA Program</i> Supervised three <i>EUREKA</i> students who were accepted into the <i>Calhoun Honors</i> <i>College</i> for a five-week design-research project during summer. They worked on designing learning environments enhancing children's learning experience.

TEACHING	
(continued) 2010-12	<b>Student Mentor/Instructor</b> University of Nottingham Department of Architecture and Built Environment, Nottingham, Nottinghamshire, UK
	Supervised several undergraduate architecture students with learning disabilities to pursue research and complete their studio projects. Furthermore, facilitated workshops of <i>Architectural-Visual Communications</i> teaching various architectural graphic techniques, and architectural software including AutoCAD, 3DsMax, ArchiCAD and Adobe Photoshop for modeling and animating.
LECTURES &	
WORKSHOPS 2014	<b>Evaluating Children's Interactive Products</b> CHI'14: the <i>ACM Conference on Human Factors in Computing Systems</i> Toronto, Ontario, Canada Lecture on design methodology, input techniques, games, context awareness, rehabilitation and end user programming guiding the design of interactive products for children.
2007	<b>Form Study and Construction of Free-style Forms</b> Tehran University School of Architecture, Tehran, Iran Successfully completed specialized training workshop of <i>Form Study and</i> <i>Construction of Free-style Forms with Space Structures</i> .
INDUSTRY	
EXPERIENCE 2010-12	<b>Rushcliffe Solar</b> West Bridgford, Nottingham, Nottinghamshire, UK
Position:	Researcher Provided householders with the advice of costs and payback to fit Photovoltaic roofs. Worked with Rushcliffe Borough Council and Energy Saving Trust (EST) providing an appraisal and estimation service for public buildings in Nottingham.
2010	Rushcliffe Play Forum and Resource Center Keyworth, Nottingham, Nottinghamshire, UK
Position:	Architectural Intern Multi-purpose Art Center for making and exhibiting art crafts made by recycled and scrap materials for children.
2009-11	<b>New Art Exchange (NAE)</b> Nottingham, Nottinghamshire, UK
Position:	Interior Designer Iranian Contemporary Art and Culture Exhibition
2006-09	Shahr-o-Khaneh Consulting Planners, Architects & Engineers Mirza Koochek Khan Blvd., Isfahan, Iran
Position:	Architectural Assistant Extension of Zayanderoud Recreational & Cultural Village, Isfahan, Iran Sheikh Bahaie University, Basic Science Department, Isfahan, Iran Rehabilitation and reconstruction of Doolab District, Tehran, Iran

REGISTRA	ΓΙΟΝ	
	Since 2008	Licensed Architect Isfahan, Iran # 1010006789
SERVICE	2014	<b>Peer reviewer</b> , DIS'14 Doctoral Consortium (the <i>ACM conference on Designing Interactive Systems</i> ), Vancouver, B.C., Canada
	2010-12	Examinations Invigilator, University of Nottingham, Nottingham, UK
	2006	<b>Facilitator</b> , research-applied project of Article 102 of Act on the third State Development Plan entitled "Consideration of Emotional Utterance Patterns of Iranian Primary-school Students", Isfahan, Iran