## nicholas squires

## • CURICULUM VITAE •

• Los Angeles, CA • E-MAIL syntax@arbitraryy.com •

EDUCATION	./ California Institute of Technology, Center for Technology and Management Education <b>Certificate</b> – Systems Engineering Fundamentals	2014
	./ California State University at Long Beach <csulb></csulb>	
	Master of Science Physics	2009
	Focus: Graphene Multilayers	
	Department of Physics & Astronomy Graduate Honors	
	./ University of California Davis	2004
	Bachelor of Science Physics, Minor in Mathematics	2004
	Focus: High Temperature Superconductiviy College of Letters and Science Highest Honors	
	Department of Physics Citation	
	Senior Thesis: The Heisenberg Model for 2D Spin-1/2 Triangular Antiferromagnets: An Application to Cs2CuBr4	
WORK	./ Self-employed	November
EXPERIENCE	Software, Systems and Communications Architect (Independent contractor)	2015 - Present
	./ NRG Energy Inc.	April 2015 –
	Software, Systems and Communications Architect (Independent contractor)	November
	Chief communications architect Virgin Limited Edition (VLE) Necker Island Renewable Energy Microgrid	2015
	./ The Boeing Company	1999 - 2015
	Software and Systems Engineer – Space, Security and Renewable Energy Systems Software Development, Project Management, Software Production Management, Release	
	Management, Lab Management, Systems Administration, for numerous space, green	
	energy, and Command and Control Software Programs	
	./ zzCollective, Inc.	0011 0014
	Co-Founder	2011 - 2014
	Software Engineering, Project Management, Business Development, Proposal Development, Financial Management, Field Engineering, Customer Engagement	
FEACHING	./ The Boeing Company	2011-2014
EXPERIENCE	Instructor – Continuous Integration, Agile Development Designed, developed, and administered training materials and training environment for	
	various training sessions on continuous Integration and Agile software development practices	
	./ Fashion Institute of Design and Merchandising <fidm></fidm>	2007 – 2013, 2016 – Present
	Lecturer – Math Skills, College Mathematics	2016 – Fresent
	Designed and developed syllabus, teaching materials, web based predictive grading analysis and collaboration tools, and Fashion/Merchandising + Mathematics quarterly mashup projects	
ACHIEVEMENTS	./ Boeing Achievement Award – Technical Leadership in the successful demonstration of	
AND AWARDS	Boeing's 2012 Smart Grid Technologies at Smart Grid Live (conference)	2012
	./ Boeing Achievement Award – Technical Leadership in the Successful demonstration of Boeing's Smart Grid Technologies to various Government and Energy utility companies	2010
	./ Boeing Achievement Award – Technical Leadership in completion and successful Deployment and delivery of a large scale, fielded command and control software suite	2008

	./ FIDM College of General Studies Instructor of the Year Nominee	
	./ Boeing Achievement Award – Technical Leadership and development of a novel, Collaborative conference web management software suite	2008
	./ Boeing Advanced Career Training (ACT) Scholarship recipient	1999
	./ 1 <sup>st</sup> and 3 <sup>rd</sup> place awards, California State and Los Angeles County fairs in Mechanical Drafting	1999
VOLUNTEERING	./Learning Center Administrator Downtown Women's Center – Los Angeles, Ca	2016
	./ Introduce a Girl to Engineering – Engineering Week Event Downtown Value School	2015
	./ Career Day Presentation Career Day Presentation at the International Institute in Madrid Spain	2013
	./ Life after Graduate School Guest speaker at CSULB physics club	2011
	./ Software Engineering as a Career Guest Speaker at Los Nietos Middle School career day	2005, 2006
PUBLICATIONS PAPERS	./ Go Behind the Scenes of Installing an Interactive LED Art Exhibit – Make Magazine	2016
PRESENTATIONS INSTALLATIONS	./ Secrets of the Universe Interactive performance and art installations in collaboration with Simonne Jones at Platoon Kunsthalle (Berlin, DE), Berlin Festival Arts Village (Berlin, DE), and ReMake Festival (Berlin, DE), Burnen, Resetter (Bernen, DE)	2013
	(Berlin, DE), Bremen Theatre (Bremen, DE) ./ Continuous Integration Best Practices	2010
	Written proposal presented to Boeing management	
	./ An Agile Approach to Software Production Written proposal presented to Boeing management	2009
	./ Electronic Excitations in Graphite and Graphene Multi-layers	2009
	./ Enterprise Social Bookmarking Paper presented at the Boeing Software Conference	2005
MEMBERSHIPS	./ Platoon Kuhnstalle Cultural Development Network	2013
	./ Phi Kappa Phi Honors Society	2004-2009