

• nicholas squires •

• CURRICULUM VITAE •

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

EDUCATION

./ California Institute of Technology, Center for Technology and Management Education **2014**
Certificate – Systems Engineering Fundamentals

./ California State University at Long Beach <CSULB> **2009**
Master of Science Physics
Focus: Graphene Multilayers
Department of Physics & Astronomy Graduate Honors

./ University of California Davis **2004**
Bachelor of Science Physics, Minor in Mathematics
Focus: High Temperature Superconductivity
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 EXPERIENCE

./ NRG Energy Inc. **2015 – Present**
Software, Systems and Communications Architect (Independent contractor)
Chief communications architect Virgin Limited Edition (VLE) Necker Island Renewable Energy Microgrid

./ 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. **2011 - 2014**
Co-Founder
Software Engineering, Project Management, Business Development, Proposal Development, Financial Management, Field Engineering, Customer Engagement

TEACHING EXPERIENCE

./ The Boeing Company **2011-2014**
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> **2007 - Present**
Lecturer – Math Skills, College Mathematics
Designed and developed syllabus, teaching materials, web based predictive grading analysis and collaboration tools, and Fashion/Merchandising + Mathematics quarterly mashup projects

ACHIEVEMENTS AND AWARDS

./ Boeing Achievement Award – Technical Leadership in the successful demonstration of 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 **2007-2012**

./ Boeing Achievement Award – Technical Leadership and development of a novel, **2008**

Collaborative conference web management software suite

./ Boeing Advanced Career Training (ACT) Scholarship recipient **1999**

./ 1st and 3rd 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
PRESENTATIONS
INSTALLATIONS**

./ Secrets of the Universe **2013**
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), Bremen Theatre (Bremen, DE)

./ Continuous Integration Best Practices **2010**
Written proposal presented to Boeing management

./ An Agile Approach to Software Production **2009**
Written proposal presented to Boeing management

./ Electronic Excitations in Graphite and Graphene Multi-layers **2009**

./ *Enterprise Social Bookmarking* **2005**
Paper presented at the Boeing Software Conference

MEMBERSHIPS

./ Platoon Kuhnstalle Cultural Development Network **2013**

./ Phi Kappa Phi Honors Society **2004-2009**