

Thomas Spalding

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EDUCATION

MS IN COMPUTER SCIENCE

SAN FRANCISCO STATE UNIVERSITY
Expected Dec 2016 | San Francisco, CA
College of Science and Engineering

BS IN ELECTRICAL ENGINEERING

UNIVERSITY OF CENTRAL FLORIDA
Graduation Date Dec 2012 | Orlando, FL
College of Engineering and Computer Science

LITERATURE

- D. Reid, A. Russo, R. Carro, M. Stephens, A. LePage, **T. Spalding**, E. Peterson and S. Seal, "Nanoscale additives tailor energetic reactions," Nanoletters, 7(7), 2157-2161, 2007.
- A. Adu, K. Mendoza, **T. Spalding**, F. Trinh, "Electronic Music Interaction: modern and alternative interactions with music devices," EECS UCF, 2012

SENIOR DESIGN

A theremin, pitch-to-MIDI converter, and an expandable OSC grid controller were designed as a study on the themes of iterative design, learning through direct feedback, and creating a virtuosic experience with ease.
See <http://goo.gl/oZuygT>.

SKILLS

PROGRAMMING

Android • Assembly (68HC11) • BASH • C/C++ • CSS • Django • Git • HTML • IDL/GDL • Java • Javascript/jQuery • Jinja • LabWindows/CVI • Less/Sass • Liquid • Lua/Löve Lua • MySQL • Pelican • Processing • Python • Vagrant

DESIGN

CAD • Eagle • Fritzing • KiCad • LTSpice • Multisim • PCB Design

OTHER

Crystal Reports • Embedded Systems • High Frequency Structural Simulator (HFSS) • \LaTeX • MAX/MSP • MetCal/MetTrack • Microcontrollers • OSC implementation

LINKS

Websites I contribute to:

Fritzing: fritzing.org
Blog: antivapor.net
ACM: sfsu.acm.org

EXPERIENCE

FRITZING | OPEN SOURCE WEB DEVELOPER

October 2014 - Present | San Francisco, CA

- Web developer and open source contributor to Fritzing.org.

EDVENTURE MORE

EDTECH | APP CREATION, 2D & 3D VIDEO GAME INSTRUCTOR
June - July 2014 | San Francisco, CA

- Introduce kids to computer science via Raspberry Pi, Scratch, Alice3 and App Inventor. Advanced kids were introduced to Python, Lua/Löve Lua, and Java for Android.

EVENLY | FRONT-END WEB DEVELOPER

September 2014 | San Francisco, CA

- Front-end web developer, javascript, UI and splash page.
- Evenly was recently acquired by Square and became Square Cash.

LOCKHEED MARTIN | JUNIOR METROLOGIST AND TEST ENGR

College Work Experience Program (C.W.E.P.) Participant at Lockheed Martin Mission Systems & Training (MST), UCF
Apr 6 2010 - Jan 31 2013 | Orlando, FL
Test Engineer at Lockheed Martin Mission Systems & Training (MST), DCR
Mar 4 2013 - Jul 31 2013 | Orlando, FL

- Junior metrologist, and primary website and database admin for the Calibration and Metrology lab.
- Responsible for developing programs for a wide range of calibration and metrological instruments, and wrote a series of web tools for the lab's internal site and database.

AMPAC & MMAE, UCF | UNDERGRADUATE RESEARCH ASSISTANT

Undergraduate Research Assistant at the Advanced Materials Processing and Analysis Center (AMPAC) & Mechanical, Materials and Aerospace Engineering (MMAE), UCF
Sep 18 2006 - Aug 8 2008 | Orlando, FL

- Assisted PhD Students and performed own experiments on topics such as solderability studies towards lead-free alloys, modifying surface chemistry of pozzolaneous coal combustion products for new concretes, and using nano-dopants to tailor burn rates of solid rocket propellant.
- Built a catalytic reactor for mass spectrometry.

INTERNATIONAL STUDIES AND RESEARCH

INSTYTUT ODLEWNICTWA (FOUNDRY RESEARCH INSTITUTE)

Summer of '08 | Krakow, Poland
Studies and Research: The effects of materials surface chemistry on wettability and spreading of liquid Sn on Ni substrates.

WARSAW UNIVERSITY

Summer of '07 | Warsaw, Poland
Studies and Research: Titania mixed systems for catalytic application.

FLORIDA STATE UNIVERSITY LONDON STUDY CENTRE

Summer of '06 | London, England
Studies: Contemporary Literature, Western Humanities and Introduction to Shakespeare

SCHOOL INVOLVEMENT

2014 officer Association for Computing Machinery at SFSU
2014 volunteer Friends of the Greenhouse at SFSU