

Ryan Michael McGee

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EDUCATION

- 9/2008 – Present
(Expected June 2010) The University of California, Santa Barbara
Master of Science in Media Arts and Technology
GPA: 3.81/4.0
Selected Coursework: Digital Audio Programming, Computing with Media Data, Multimedia Technology Engineering, Spatial Computing, Computer Vision, Computer Music Synthesis and Composition (JoAnn Kuchera-Morin), Advanced Electronic Music Composition (Curtis Roads), Derivation of Music from Other Sources (Clarence Barlow), Musical Acoustics
- 8/2005 – 5/2008 The University of Texas at Dallas
Bachelor of Science in Electrical Engineering, Cum Laude
Academic and Engineering Honors Scholarships
GPA: 3.70/4.0
Selected Coursework: Digital Signal Processing, Communication Systems, RF Circuit Design, Sound Design, Computer Music
- 8/2003 – 5/2005 The University of North Texas
Texas Academy of Mathematics and Science
Full-time, residential early-college program
GPA: 3.86/4.0
(www.tams.unt.edu)

ACADEMIC

- 1/2010 – 3/2010 Teaching Assistant
The University of California, Santa Barbara
Teaching Assistant for Music and Technology (MAT 200B)
- 9/2009 – 12/2009 Teaching Assistant
The University of California, Santa Barbara
Teaching Assistant for Digital Audio Programming: Sound Synthesis Techniques course (MAT 240D). In charge of weekly lab sessions, regular office hours, individual tutoring, and maintenance of course website.
- 8/2006 – 5/2007 Student Mentor
The University of Texas at Dallas
Taught two review sessions per week for Differential Equations and Advanced Engineering Mathematics. Made practice tests, held office hours, and gave individual tutoring.

PROGRAMMING

- Languages C/C++, Java, MATLAB, LabVIEW, Csound, Max/MSP, PureData, Verilog
Selected APIs JUCE, Core Audio, PortAudio, RTAudio, OpenGL, OpenCV, SDL, FFTW

PROFESSIONAL

- 6/2009 – 9/2009
(Consultant) Electrical Design Engineer
Polatomic Inc, Richardson, TX
Designed user interface and implemented DSP algorithms for a magnetometer system used on Navy P-3 aircraft. Worked with a team of software engineers to develop a LabVIEW application for the display, recording, and processing of magnetic field data. Generated system-level wiring diagrams for all hardware. Provided on-site installation and support of systems for US Navy.
- 8/2007 – 8/2008
(Full-Time)
- 5/2007-8/2007 Student Engineer
Southwest Research Institute, San Antonio, TX
Surveillance and Geolocation Division, Tracking Systems Section
Developed MATLAB routine for orbit propagation, designed simple analog circuits, tested digital audio recording systems and authored user manual.
- 1/2006 – 5/2007 Campus Rep
Apple
Promoted and supported Apple products through on-campus marketing events, founded and organized the first Apple User Group at the University of Texas at Dallas, awarded Apple Product Professional Certification (2007)
- 5/2005 – 1/2007 Mac Specialist
Apple Willow Bend Retail Store, Plano, TX
Taught one-on-one and group classes for Apple multimedia software including Final Cut Studio and Logic Pro, matched retail customers with appropriate computer software and hardware

CREATIVE

- 2007 - Present www.lifeorange.com
Hosts several of my videos, music, performances, projects, software, and papers.
- 1/2006 – 7/2008 Intern
And/Or Gallery (www.andorgallery.com)
Installed new media artwork, assisted in coordinating events, and provided information to customers.
- Summer 2007 *Untitled*: 9-minute experimental video piece for Transatlantic, a collaborative project between Texas video artists and French composers of musique concrète. The work was shown at One Arts Plaza in Dallas, TX and at the Laboratoire et Informatique de Marseilles, France.