

Patrick W. O'Keefe

- Education** University of Miami, Coral Gables, FL
Bachelor of Science in Electrical Engineering, Audio Engineering Option May 2010
Summa Cum Laude – Ranked First in College of Engineering – GPA 3.99
- Experience** University of Miami, Coral Gables, FL
Research Assistant January 2009 to Present
- Led a team on the construction and application of a multi-touch table interface
 - Experimented with free space gesture control and augmented reality
 - Created a wireless device that augments live audio based on gestures
- Stubble, LLC, Coral Gables, FL
Co-Founder, Lead Programmer June 2009 to Present
- Started company that specializes in personal music intelligence
 - Work with the University on commercializing thesis and doctoral research
 - Produced an iPhone application that utilizes basic music information retrieval
 - Contracted programming services to international companies
- University of Miami, Coral Gables, FL
Teaching Assistant January to May 2009
- Acted as a teaching assistant for *DSP Programming for Audio Applications*
 - Introduced students to Mac OS X and iPhone programming with Core Audio
- Self-Employed
Independent iPhone Software Developer January 2008 to June 2009
- Developed an application called “Voice Record” that was approved by Apple
 - Utilized much of the Cocoa Framework and Core Audio
 - Released the app in July 2007, which is now on over 35,000 mobile devices
- Honors & Activities**
- National Science Foundation Graduate Research Fellow
 - University of Miami College of Engineering Overall College Award
 - Eliahu I. And Joyce Jury Award for Undergraduate Scholarship in Engineering
 - Kamal Yacoub Award for Undergraduate Scholarship in ECE
 - Norman G. Einspruch Scholar Award
 - Samuel S. Lee Award for Academic Excellence
 - Ed Arnold Media Studies Scholar
 - Third Place in Engineering – UMiami Research, Creativity and Innovation Forum
 - IEEE Student Member and University of Miami Student Branch President
 - Eta Kappa Nu (Electrical and Computer Engineering Honor Society) Member
- Publications** P. O'Keefe, and C. Leider. “Audio Effect Control via Head-Position Estimation.” *Proc. of the Fourth International Haptic and Auditory Interaction Design Workshop, HAID 2009*. Dresden, Germany, September 10-11 2009, vol. II, pp. 20-21
- Skills** Objective-C, C++, Cocoa Frameworks, Core Audio, OpenCV, OpenGL
C and Assembly programming for embedded microcontrollers and DSP Boards
Working Knowledge of PHP, MySQL, HTML
Proficient with Matlab, Adobe Creative Suite, L^AT_EX