

Patrick W. O’Keefe

EDUCATION

University of Michigan, Ann Arbor, Michigan USA

M.S., Electrical Engineering: Systems – In Progress – May 2012

University of Miami, Coral Gables, Florida USA

B.S.E.E., Audio Engineering Option, May 2010

Summa Cum Laude – Ranked First in the College of Engineering with a 3.99 GPA

HONORS AND ACTIVITIES

National Science Foundation Graduate Research Fellowship 2010

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 for highest College of Engineering GPA

Samuel S. Lee Award for Academic Excellence

Tzay Y. Young Award for Outstanding Senior Design Project

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

ACADEMIC EXPERIENCE

University of Miami, Coral Gables, FL

Research Assistant

January 2009 to May 2010

- 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

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

PUBLICATIONS

P. O’Keefe, and G. Essl. “The Visual in Mobile Music Performance.” *Proc. of the International Conference on New Interfaces for Musical Expression (NIME)*. Olso, Norway, May 30-June 6 2011.

P. O’Keefe, and C. Leider. “Audio Effect Control via Head-Position Estimation.” *Proc. of the Fourth International Workshop on Haptic and Auditory Interaction Design, HAID 2009*. Dresden, Germany, September 10-11 2009, vol. II, pp. 20-21

WORKSHOPS

G. Essl, and P. O’Keefe. “Designing Mobile Instruments and Performances in urMus.” *New Interfaces for Musical Expression Workshop*. Olso, Norway, May 28, 2011.

PROFESSIONAL EXPERIENCE

Stubble, LLC, Coral Gables, FL

Co-Founder, Lead Programmer

June 2009 to Present

- Started company that specializes in personal music intelligence

- Worked 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

Self-Employed

Independent iPhone Software Developer

January 2008 to June 2009

- Developed an application called “Voice Record” that was approved by Apple
- Released the app in July 2007, which is now on over 35,000 mobile devices
- App was featured by David Pogue on the front page of The New York Times website

SKILLS

Objective-C, C++, Python, Cocoa Frameworks, Core Audio, OpenCV, Java
C and Assembly programming for embedded microcontrollers and DSP Boards
Competent with Adobe Photoshop, Illustrator, After Effects, Flash, and InDesign
Working Knowledge of PHP, MySQL, HTML