

Brian J. Wright

USF Email ID: brianwright • <http://brianwright.myweb.usf.edu> • (863) 697-3550

Last updated: October 14, 2015

RESEARCH INTERESTS

Haptics and touch perception, human-machine interfaces, sensory augmentation and substitution, control systems, robotics, rapid prototyping, wearable electronics, and online education

EDUCATION

University of Pennsylvania

M.S.E. in Robotics

· Thesis: *{In Preparation}* (Advisor: Katherine J. Kuchenbecker)

Philadelphia, PA

expected May 2017

University of South Florida

B.S. in Electrical Engineering

B.S. in Mechanical Engineering

Tampa, FL

May 2015

December 2014

EXPERIENCE

Massachusetts Institute of Technology

Web Assistant

Cambridge, MA

June 2015 – September 2015

- Developed over 100 web-based review questions for a Manufacturing Processes MOOC (2.008x) using the edX platform extended with Python and JavaScript.

University of South Florida

Undergraduate Research Volunteer

Tampa, FL

January 2014 – May 2014

- Programmed a three-dimensional, haptic, virtual maze environment in C++ for two Phantom Omni styluses—six degree-of-freedom force-feedback arms configured side-by-side.
- Administered maze completion time trials to twelve subjects in a controlled environment.
- Demonstrated each feedback mechanism to over one hundred guests during an open house event.

Independent Projects

February 2012 – October 2014

- Designed a custom syringe loader in Solidworks, then 3D printed with polylactic acid (PLA).
- Created custom libraries in MATLAB/Octave for electrical engineering: degree-based phasor functions, transmission line equations, capacitor/inductor macros, and logic simulation commands.

TECHNICAL STRENGTHS

Software ADS, ANSYS, C, C++, JavaScript, LabVIEW, LaTeX, MATLAB, SolidWorks, SPICE

Skills 3D printing, Allen-Bradley PLC, Arduino, laser cutting, soldering, woodworking

HONORS & AWARDS

National Science Foundation (NSF) Graduate Research Fellowship

Joost J. Schwaanhuysen Endowed Memorial Scholarship

SERVICE & AFFILIATIONS

American Society of Mechanical Engineers (ASME)

Institute of Electrical and Electronics Engineers (IEEE)

Tau Beta Pi – Professional Chair

United States Marine Corps (USMC) Veteran

IEEE World Haptics 2015 Student Volunteer

Stampede of Service Volunteer