GENEVIEVE FLASPOHLER

209 Blake Building, Mailstop 7◇ Woods Hole Oceanographic Institution ◇ Woods Hole, MA 02543
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EDUCATION

Massachusetts Institute of Technology & *September 2016 - Present*
Woods Hole Oceanographic Institution Joint Program
Ph.D. Student in Computer Science and Applied Ocean Engineering
Advisor: Yogesh Girdhar - *warp.whoi.edu*

University of Michigan *September 2012 - June 2016*
B.S.E. in Computer Engineering
GPA: 3.980, *Summa Cum Laude*

Relevant coursework: digital signal processing, computer vision, data structures & algorithms, microprocessor systems, computer architecture, probability, autonomous robotics, operating systems

RESEARCH EXPERIENCE

Massachusetts Institute of Technology & Woods Hole Oceanographic Institution
Cambridge, MA *September 2016 - Present*

· Graduate Student Research Assistant, Electrical Engineering and Computer Science

Woods Hole Oceanographic Institution
Woods Hole, MA *January 2015 - January 2016*

· Developed MATLAB algorithms to process data collected from ITAG, a custom embedded animal biotelemetry device for marine invertebrates, and predict animal gait and movement
· Designed modification to Loggerhead Instruments OpenTag sensor board, allowing the addition of peripheral sensors interfaced through I2C communication bus
· Ran live experiments on squid carrying ITAG and OpenTag at the Woods Hole Shore Laboratory
· Research supported by NSF REU grant

University of Michigan
Ann Arbor, MI *September 2014 - May 2015*

· Designed and prototyped custom embedded hardware to transmit and receive vibratory communications
· Developed on-off keying modulation and digital signal processing firmware to send and interpret vibratory signals in real-time
· Presented published work in the ACM Hot Wireless Workshop 2015, Paris, France

INDUSTRY EXPERIENCE

FANUC Robotics America
Rochester Hills, MI *May 2014 - August 2014*

· Developed a user-friendly, cross-browser compatible web interface for FANUC robot controllers
· Programmed robot showcase application for the International Machine Tools Show
· Gained proficiency in HTML, CSS, JavaScript and received FANUC robot safety and control training

CONFERENCE AND WORKSHOP PUBLICATIONS AND PRESENTATIONS

1. Adkins, J., **Flaspohler, G.**, & Dutta, P. (2015, September). Ving: Bootstrapping the Desktop Area Network with a Vibratory Ping. In Proceedings of the 2nd International Workshop on Hot Topics in Wireless (pp. 21-25). ACM. Chicago
2. **Flaspohler, G.** (2013, January). Effects of prostheses on the metabolic cost of walking for lower-limb amputees. Poster and presentation at the Michigan Research Community Symposium, Ann Arbor MI.

TEACHING EXPERIENCE

University of Michigan Ann Arbor, MI

EECS 281: Advanced Algorithms and Data Structures	January 2016 - June 2016
ENGR 100: Introduction to Human Centered Design	January 2013 - June 2015

AWARDS AND GRANTS

1. National Science Foundation Graduate Research Fellowship, $102,000 plus tuition (2016 - Present)
2. University of Michigan's Engineering Distinguished Achievement Award, $500 (May 2016)
3. University of Michigan's EECS William L. Everett Student Award of Excellence, $500 (May 2016)
4. University of Michigan's EECS Scholar, $500 (May 2016)
5. NSF REU Undergraduate Research Award, $1,500 (May 2015)
6. University of Michigan's Electrical Engineering and Computer Science Outstanding Achievement Award, $500 (May 2015)
7. University of Michigan's Marian Sarah Parker Prize, $1,000 (May 2015)
8. University of Michigan's Darl F. and Lorene O. Caris Dean?s Merit Scholarship full-ride, $130,000 (September 2012 - May 2016)