PATRICK LANCASTER

planc509@cs.washington.edu

EDUCATION

University of Washington, Seattle, WA 2014 - Present

    Ph.D.   Computer Science and Engineering Expected June 2019

University of Washington, Seattle, WA 2011 - 2014

    B.S.E.E   Electrical Engineering (Embedded Systems)

    B.S.   Applied Computational and Mathematical Sciences

RESEARCH

Graduate Research Assistant, University of Washington June 2014 - Present

    Prof. Joshua R. Smith, Sensor Systems Laboratory

    Project: Pre-touch Sensing for Robot Manipulators

Undergraduate Research Assistant, University of Washington June 2012 - December 2013

    Prof. Eve A. Riskin

    Project: Alternative and Augmentative Communication Mobile Application for children with autism

PREPRINTS

C. M. Watts, **P. Lancaster**, A. Pedross-Engel, J. R. Smith, M. S. Reynolds. "2D and 3D Millimeter-Wave Synthetic Aperture Radar Imaging on a PR2 Platform." Submitted to Intelligent Robots and Systems (IROS), 2016.

PUBLICATIONS

D. Guo, **P. Lancaster**, L.T. Jiang, F. Sun, J.R. Smith. "Transmissive optical pretouch sensing for robotic grasping." Intelligent Robots and Systems (IROS), 2015 IEEE/RSJ International Conference on. IEEE, 2015.

HONORS / AWARDS

    Graduated Magna Cum Laude

    University of Washington President's Medal Nominee

    Member of HKN International Society for Electrical Engineers

TEACHING

Student Mentor, Center for Sensorimotor Neural Engineering Summer 2015

Graduate Teaching Assistant, Microcomputer Systems (EE 472) Summer 2014

Undergraduate Teaching Assistant, Embedded Systems Capstone (EE 478) Spring 2014

Undergraduate Teaching Assistant, Microcomputer Systems (EE 472) Winter 2014

OTHER WORK EXPERIENCE

Undergraduate Intern, Sandia National Laboratories, Albuquerque NM June 2013 - September 2013

SELECTED COURSES

Electrical Engineering: Embedded Systems, Analog Devices and Circuit Design, Digital Logic, Semiconductor Device Physics

Mathematics: Dynamical Systems and Chaos, Partial Differential Equations, Complex Analysis, Probability and Statistics

Computer Science: Machine Learning, Computer Vision, Artificial Intelligence, Probabilistic Robotics, Probabilistic Graphical Models, Data Structures and Algorithms

COMPUTING

Languages: C++, C, Java, Python, MatLAB

Operating Systems: Linux, Windows