

Ethan Michael Laidlaw McClure

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EDUCATION

University of Rhode Island, Kingston, RI

Class of 2017

Bachelor of Science: Electrical Engineering + Applied Mathematics

Pilot Student: Japanese International Engineering Program

Minor: Economics

Current Cumulative GPA: 3.98

COMPUTER SKILLS

Software: C++, C, Matlab, PSpice, Mathematica, VHDL, Microsoft Office, COMSOL

PUBLICATIONS

Bearden, Samuel; McClure, Ethan; Zhang, Guigen **Detecting and Identifying Small Molecules in a Nanopore Flux Capacitor** *Nanotechnology* 27(7) doi: 10.1088/0957-4484/27/7/075503

WORK/RESEARCH EXPERIENCE

University of Rhode Island – Kingston, RI

September 2016 –

Electrical, Computer, and Biomedical Engineering Department – Research Assistant

Researching if and how screws can be used as alternative antennas for RFIDs for use in industry.

International Gaming Technologies – West Greenwich, RI

September 2016 –

University of Rhode Island – Senior Capstone Design Project

Involved in designing, programming, and testing of a proximity detection system.

Shimadzu Corporation – Kyoto, Japan

April 2016 – August 2016

National Science Foundation – Internship

Involved in designing, programming, and testing of control systems for a new research grade measurement device.

Tokyo Institute of Technology – Tokyo, Japan

November 2015 – March 2016

Japanese International Engineering Program - Visiting Student Researcher

Researched metamaterials with a focus on designing and manufacturing a nanoscale split-ring resonator on an organic substrate in order to produce a negative refractive index in the visible range.

Colorado State University – Fort Collins, CO

June 2015 – August 2015

National Science Foundation – Research Experience for Undergraduates

Research project focused on acquire data from a photodiode being hit by an extreme ultraviolet laser. Use an FPGA to preprocess incoming real-time data before using a digital data acquisition tool to send data to MATLAB for analysis.

Clemson University – Clemson, SC

June 2014 – August 2014

National Science Foundation – Research Experience for Undergraduates

Research project involved acquiring and processing data from a novel biosensor used for DNA sequencing. Created a MATLAB environment that worked quickly and efficiently to process data through filters and analysis tools.

AWARDS/HONORS/MEMBERSHIPS

Phi Beta Kappa National Honor Society

May 2015

Member and Secretary of Tau Beta Pi National Engineering Honor Society

December 2014

Pi Mu Epsilon National Mathematics Honor Society

May 2014

Member and President Eta Kappa Nu National Electrical Engineering Honor Society

May 2015