

Blaine Ayotte

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EDUCATION

UNDERGRADUATE:

BS, Physics and Mathematics, May 2017, **St. Lawrence University**, Canton, NY
Physics Major GPA: 3.889/4.000; Math Major GPA: 3.875/4.000; Overall GPA: 3.821/4.000
Honors and Awards: Phi Beta Kappa Honor Society (2017), Mary Reklis Award (2016): Awarded to recognize an outstanding junior physics student, Donald C. Peckham Physics Merit Award (2015): Awarded to a rising junior or senior demonstrating excellence in physics, Sigma Pi Sigma Physics Honorary Society (2015), Pi Mu Epsilon Mathematics Honorary Society (2014), Awarded Deans List multiple times.

GRADUATE:

MS, Electrical and Computer Engineering, **Clarkson University**, Potsdam, NY
Expected Date of Graduation: May 2019

RESEARCH EXPERIENCE

UNDERGRADUATE:

Building a low-cost Stokes polarimeter to make research involving polarized light more accessible to a wider community.

GRADUATE:

Working to create a behavioral biometric for smartphone authentication from touch information, location, and other features. This involves writing an Android application to collect data from users and analyzing the data using machine learning techniques.

WORK EXPERIENCE

St. Lawrence Peterson Quantitative Resource Center , <i>Mentor/Tutor</i> , Canton, NY	Fall 2014-Spring 2017
<ul style="list-style-type: none">• Assist students with mathematics, statistics, and physics• Teach students how to utilize LaTeX, Wolfram Mathematica, and Excel	

St. Lawrence University Mathematics Department , <i>Teaching Assistant</i> , Canton, NY	Fall 2015-Spring 2017
<ul style="list-style-type: none">• Aid Dr. Daniel Look in the grading of student work for calculus 1 and 2• Chosen for proficiency in various mathematical disciplines	

CO-CURRICULAR EXPERIENCE

St. Lawrence University Men's Nordic Ski Team , <i>Team Member</i> , Canton, NY	Fall 2013-Spring 2017
<ul style="list-style-type: none">• Awarded U.S. Junior National Skiing All-American (2014, 2015)• Awarded U.S. Collegiate Ski Coaches Association's All-Academic Team (2014, 2015, 2017)	

St. Lawrence University Men's Cross Country Running Team , <i>Team Member</i> , Canton, NY	Fall 2016
<ul style="list-style-type: none">• Attend weekly practices• Raced in important pre-Regionals meet in Rowan New Jersey	

ARDUINO EXPERIENCE

I am self-taught using Arduino microprocessors. I have built a remote controlled/self-driving car with RF transmitter and receiver. I also have built an automatic plant watering system that measures moisture content in soil and if below a threshold the Arduino will turn on a water pump.

SKILLS

Proficient in MS Office, LaTeX (PDF Writer), Wolfram Mathematica, Python, and familiar with MATLAB, Android Studio, and C++.