



2A Biomedical Engineering
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RELEVANT EXPERIENCE

Research Assistant Scientist

Vision and Image Processing Research Group

May 2016 - Present

- Regularly used Matlab, Arduino, Solidworks, 3D print software and Eagle PCB design software
- Electrically, optically and mechanically developed and tested parts of a hemodynamic imaging system
- Culminated in a conference paper and presentation
- Full-time summer co-op; part-time fall URA

Cyathlon Powered Arm Team

Bio-mechatronics Club, University of Waterloo

Jan 2016 - Present

- Collaboratively researched and implemented Myo-Arduino hardware-software interfaces
- Prototyped mechanical housing and motion system for a user-controlled powered prosthetic arm

Biomedical Global Health Design Project

University of Waterloo

Sep - Dec 2015

- Collaboratively analyzed a global issue to organize and present a design plan, CAD models, iterative prototypes and performance tests

NOTABLE AWARDS

Winter 2016 (1B) Term Dean's Honours List

President's Research Award

N.S.E.R.C. Undergraduate Student Research Award

President's Scholarship of Distinction

Valedictorian

Senior Female Athlete of the Year

SKILLS

Solidworks (CAD)	Matlab
Performance Testing	Machining
Rapid Prototyping	PCB Design
Circuit Evaluation	Arduino
Biology/Biomechanics	C++
Leadership	C#
Teamwork	R
Independent Learning	Initiative
Communication	Research

PUBLICATIONS

M. Wilson, R. Amelard, D. A. Clausi, A. Wong, "Co-integrating thermal and hemodynamic imaging for physiological monitoring," *Journal of Computational Vision and Imaging Systems*, Submitted, Sep 16 2016.

INTERESTS

UW women's fastball team member
Minor girls' softball head coach
Engineering O-Week Leader 2016
Competitive hockey
ORCKA Canoe Tripping Level 1
Emergency First Aid and CPR 'B'

<i>University of Waterloo</i>	<i>Apr 2016</i>
<i>University of Waterloo</i>	<i>Sep 2016</i>
<i>VIP Research Group</i>	<i>May 2016</i>
<i>University of Waterloo</i>	<i>May 2015</i>
<i>Thornlea Secondary School</i>	<i>Jun 2015</i>
<i>Thornlea Secondary School</i>	<i>Jun 2015</i>