**MICHAEL S. SAUGSTAD**

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# RELEVANT EXPERIENCE

**Research Intern – Quality of Life Technology NSF REU** Summer 2015 - Present Carnegie Mellon University Robotics Institute, Pittsburgh, PA

* Develop software to reliably detect people, estimate their position and velocity,

and autonomously move in socially acceptable ways alongside them

* Write a draft of a conference paper
* Make and present a poster

**Computer Science Research Assistant** Winter 2015 - Spring 2015 Vassar College Computer Science Department, Poughkeepsie, NY

* Learned and used ROS, the standard in research for robotics software frameworks
* Implemented reactive repulsion vector obstacle avoidance using laserscan data
* Designed simple pursuit of a colored target using a Kinect sensor and OpenCV

**Computer Science Teaching Assistant** Fall 2013 - Winter 2014 Vassar College Computer Science Department, Poughkeepsie, NY

* Assisted 30 or more students with their homework, labs, and lives through

mentoring, answering course questions, and debugging code

* Worked beginner to intermediate level courses in Java and Scheme/Racket
* Held regular office hours each week to provide additional assistance to students

**Programming Instructor** Summer 2014

iD Tech Camps at MIT, Boston, MA

* Taught courses in game design to 6-12 year olds and courses in Java to 13-17 year olds, ensuring that students reach set curriculum goals
* Prepared lesson plans and taught classes of 4 to 8 students
* Supervised 8 children, led activies, and maintained a safe atmosphere on duty

# EDUCATION

**Vassar College**, Poughkeepsie, NY

Bachelor of Arts, Majors: Mathematics, Computer Science Spring 2016

G.P.A. Overall: 3.81 Majors: 3.87

**Carnegie Mellon University**, Pittsburgh, PA

Logic and Formal Epistemology Summer Program Summer 2014

# COMPUTER SKILLS

Proficient with Java, C++, Python, LaTeX, ROS, Scheme/Racket, Ubuntu, Windows Familiar with C/UPC, Ruby/Rinda, Assembly, Haskell, Occam-Pi, Prolog

# LEADERSHIP AND INTERESTS

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| **Co-chair**, Vassar College Computer Science Majors Committee | 2014-2015 |
| **Treasurer**, Vassar College Mathematics Majors Committee | 2014-2015 |
| **Junior Rep**, Vassar College Board of Elections and Appointments | 2014-2015 |
| **Captain and Treasurer**, Vassar College Quidditch Team | 2013-2014 |
| **Co-founder**, Quidditch instruction program for children through | Summer 2013 |

the local Parks and Recreation Department