

# 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 activities, 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

**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 the local Parks and Recreation Department Summer 2013