

MICHAEL S. SAUGSTAD

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RELEVANT EXPERIENCE

Computer Science Research Assistant

Jan 2015 - Present

Vassar College Computer Science Department, Poughkeepsie, NY

- Implement reactive indoor navigation using dynamical systems with new modifications
- Integrate existing Python code base into the ROS ecosystem
- Redesign robot's vision to utilize Kinect depth sensor
- Test different navigation modes both in simulation and using Turtlebots; analyze results
- Write paper for publication, using results of navigation trials

Research Intern - Quality of Life Technology NSF REU

May 2015 - Aug 2015

Carnegie Mellon University Robotics Institute, Pittsburgh, PA

- Developed software to reliably detect people, estimate their position and velocity, and autonomously move in socially acceptable ways alongside them
- Wrote a draft of a conference paper (not published)
- Created and presented a poster: "Smooth Side By Side Navigation for Escort Robot"

Computer Science Teaching Assistant

Sept 2013 - Dec 2014

Vassar College Computer Science Department, Poughkeepsie, NY

- Assisted 30 or more students with their coursework, 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

June 2014 - Aug 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 daily lesson plans and taught classes of 4-8 students

EDUCATION

Vassar College, Poughkeepsie, NY

Bachelor of Arts, Majors: Mathematics, Computer Science

G.P.A. Overall: 3.81 Majors: 3.86

May 2016

Carnegie Mellon University, Pittsburgh, PA

Logic and Formal Epistemology Summer Program

June 2014

COMPUTER SKILLS

Proficient: Java, C++, Python, LaTeX, ROS, Scheme/Racket, Ubuntu, Windows

Familiar: C/UPC, Ruby/Rinda, Assembly, Haskell, Occam-Pi, Prolog

LEADERSHIP AND INTERESTS

Co-chair, Vassar Computer Science Majors Committee, Poughkeepsie, NY

Sept 2014 - May 2015

Treasurer, Vassar Mathematics Majors Committee, Poughkeepsie, NY

Sept 2014 - May 2015

Junior Rep, Vassar Board of Elections & Appointments, Poughkeepsie, NY

Sept 2014 - May 2015

Captain and Treasurer, Vassar Quidditch Team, Poughkeepsie, NY

Sept 2013 - May 2014

Co-founder, Quidditch Instruction Program – Parks and Recreation

June 2013 - Aug 2013

Department, Waukesha, WI