

Sarah Strohkorb

Education

- May 2020 **Yale University**, *New Haven, CT*,
First-Year Ph.D. Candidate in Computer Science, advised by Brian Scassellati.
- May 2014 **Franklin W. Olin College of Engineering**, *Needham, MA*,
Bachelor of Science in Electrical and Computer Engineering, *GPA 3.87*.
- Spring 2013 **Khalifa University**, *Abu Dhabi, UAE*, Study Abroad, *GPA 3.94*.
- May 2010 **Washburn Rural High School**, *Topeka, KS*, *GPA 4.0*.

Experience

Research Projects

- Fall 2013 - **Data Reduction in the Facebook Android App**, *Facebook Inc.*, Senior Design Project
Spring 2014 in Engineering at Olin College, *Project Manager*.
On a team of five, developed a mock-up of the Facebook Android application that enables peer-to-peer connections to improve the Facebook Android app experience for those in emerging markets with low-bandwidth and unreliable networks. www.p2feed.com
- Fall 2012 **Maze-Solving Robot**, *Olin College*, Self Study in Artificial Intelligence: Programming a Robotic Car.
As a team of two, constructed an Arduino controlled robot that would know the map of a maze and navigate to a goal location. The robot was randomly placed in the maze, detected its location using a particle filter, and navigated to the goal using a path planning algorithm.
- Fall 2011 **Marker-Drawing Robot**, *Olin College*, Principles of Engineering.
On a team of five, designed and produced an Arduino controlled robot that draws with markers a scalable version of what a user draws in a MS Paint like user interface written in Python.

Employment

- Summer **Cogo Labs**, *Cambridge, MA*.
2013 Built a horoscope website with the goal of obtaining user sign-ups for daily emails. Learned how to create a simple web start-up and helped to improve analytic techniques of user behavior.
- Summer **Garmin International Inc.**, *Aviation Division*, *Olathe, KS*.
2012 Developed software tests for the G1000 re-release (Garmin's glass-cockpit system) based on requirement standards enforced by the FAA.
- Summer **NASA: Goddard Space Flight Center**, *Astrophysics Science Dpt.*, *Goddard, MD*.
2011 Worked on two research teams. For one team, modeled and produced an electrostatic lens for an analog signal to x-ray transmitter. And for the other transformed an analog signal/x-ray transmitter and receiver to work with digital signals. Demoed successful work to NASA engineers.

Leadership and Activities

- Fall 2013 - **Exchange Student Resident Resource**, *Olin College*.
Spring 2014 Acted as a student resource in dorms for all exchange students. Helped to organize orientation and events, respond to emergencies, resolve conflicts, and respect confidentiality.
- Fall 2013, **Course Tutor**, *Olin College*.
Spring 2012 Tutored students in Linear Algebra and time management skill development.

Skills

Android, C, C++, Eclipse, Java, Linux platforms, MATLAB, Python, Ruby on Rails