

Sarah Strohkorb

Education

- May 2014 **Franklin W. Olin College of Engineering**, Needham, MA,
Candidate for Bachelor of Science in Electrical and Computer Engineering, *GPA 3.83*.
Coursework includes: Artificial Intelligence: Programming a Robotic Vehicle, Senior Capstone Project, Discrete Math, Human Factors and Interface Design, Software Systems, Software Design.
- Spring 2013 **Khalifa University**, Abu Dhabi, UAE, Study Abroad, GPA 3.94.
Coursework includes: Database Systems, Software Architecture, Software Testing
- 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, developing and testing an idea to improve the Facebook Android app experience for those in emerging markets with low-bandwidth and unreliable networks.
- 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 Acts as a student resource in dorms for all exchange students. Helps to organize orientation and events, respond to emergencies, resolve conflicts, and respect confidentiality.
- Fall 2013 - **President**, Olin Christian Fellowship.
- Spring 2014 Coordinates weekly activities for a group of about 25 Christian college students.
- Fall 2013, **Course Tutor**, Olin College.
- Spring 2012 Tutored students in Linear Algebra and time management skill development.

Skills

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