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RACHEL YANG

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education

Olin College of Engineering, Needham, MA

Candidate for Bachelor of Science in Engineering
with a Concentration in Computing

Expected Graduation: May 2019

GPA: 3.66

Recipient of 4-year, 50% Olin Merit Scholarship

Coursework includes: Foundations of Computer Science, Software Design,
Software Systems, User-Oriented Design, Olin.JavaScript

Parkway West High School, Ballwin, MO

Graduated: May 2015

GPA: 4.548 (Weighted)

Class Rank: 3 out of 254

activities + achievements

Honor Board Representative:

served as one of 6 students to investigate and revise the
Honor Code at Olin

Intramural Indoor Soccer Co-Captain:

competed with an all-women team of ten against a
male-dominated league

NHS President:

directed student-run chapter of a nationwide organization
centered on scholarship, leadership, service and character

Missouri Scholars 100:

recognized as one of 100 students in Missouri (Spring 2015)

Girl Scouts Ambassador:

dedicated twelve years to serving community as a GS
member

Most Creative Rube Goldberg Award:

given to one of 60 students in Honors Physics (Nov 2013)

Second Place at State Level for TEAMS:

Tests of Engineering Aptitude, Math & Science
(Summer 2013)

experience

Olin Adaptive Blind Sailing Research Project

Summer
2016

- Developed autonomous system for blind sailors to match race one on one without sighted guides
- Collaborated with Community Boating, Inc. and SailBlind in Boston, MA

Project Echo: An Interactive Art Projection Piece

Spring
2016

- Projected geometric graphics that can be manipulated by changes in volume and/or location of the user
- Used NumPy, OpenCV, Alsaaudio, Audioop, Pygame, and Matplotlib

Wheelchair Dance Stage Set: A Study on Ramps

Spring
2016

- Designed for dancer, choreographer and wheelchair user Alice Sheppard
- Sketched, modeled, and eventually machined a life-size, ramp-based performance stage set

Biomimicry Play Experience Project

Fall
2015

- Designed a game centered around the biomimicry of an elephant
- Constructed a claw-slingshot trunk mechanism to mimic ability to pick up and release food
- Focused on user-oriented design by tailoring the experience for fourth graders

skills

Python

3D Printing

Screen Printing

Vinyl Cutting

MATLAB

HTML/CSS

SolidWorks

Drill Press Machine

Band Saw Machine

interests



PIANO



SLAM POETRY



NPR TINY
DESK CONCERTS



OPTICAL
ILLUSIONS



HOMEMADE GIFTS



BAKING