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RACHEL YANG

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education

Olin College of Engineering, Needham, MA

Candidate for Bachelor of Science in Engineering

Expected Graduation: May 2019

GPA: 3.66

Recipient of 4-year, 50% Olin Merit Scholarship

Coursework includes: Principles of Engineering, Materials Science,
Linearity II, Korean, Software Design

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
- Collaborated with Community Boating, Inc. and SailBlind in Boston, MA

International Development Innovation Network Student

Fall 2015 –
Spring 2016

- Developed hands-on curricula to teach fabrication skills in resource-poor areas
- Documented previous skill builders and designed new skill builders

Pharmacokinetics Research Project

Fall 2015

- Modeled effects of acetaminophen dosage on liver damage
- Used MATLAB to simulate how acetaminophen is metabolized by the human body

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