

# YEOLIM JO

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**EDUCATION** | **CORNELL UNIVERSITY, ITHACA NEW YORK** *EXPECTED MAY 2019*  
CANDIDATE FOR BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING  
GPA: 3.70/4.00

**AWARDS** | Dean's List (Fall 2015, Spring 2016, Fall 2016, Spring 2017)

**RELEVANT COURSEWORK** | Statics and Mechanics of Solids, Transition to MATLAB, Thermodynamics, Dynamics, Engineering Computation, Mechanics of Engineering Materials (Fall 2017), Fluid Mechanics (Fall 2017), Mechatronics (Fall 2017)

**BROOKLINE HIGH SCHOOL, BROOKLINE MASSACHUSETTS** *GRADUATED MAY 2015*  
HIGH SCHOOL DIPLOMA: GPA: 3.99/4.00 (UW)

**WORK EXPERIENCE** | **HYPERLOOP ONE** *JUNE 2017-AUGUST 2017*  
LEVITATION ENGINEERING INTERN *LOS ANGELES, CALIFORNIA*

- Co-designed a levitation test rig using NX and ANSYS Mechanical
- Conducted trade studies of several configuration options using hand calculations automated in Microsoft Excel
- Presented bi-weekly updates to a team of engineers, summarizing progress, relevant analysis, and action items

**PROJECT EXPERIENCE** | **CORNELL BAJA RACING** *SEPTEMBER 2015 - PRESENT*  
DRIVETRAIN SUB TEAM MEMBER *ITHACA, NEW YORK*

- Small group of undergraduates that custom design, analyze, and manufacture an off road vehicle to compete in 3 spring competitions
- 2015-2016 (Frame sub team): designed the aluminum removable gas using a two piece technique that simplified manufacturing
- 2016-2017 (Drivetrain sub team): designed and analyzed the front hubs using SolidWorks and ANSYS Mechanical, optimizing for bearing size and rotational inertia using a novel method of quantifying bearing drag loss
- Active in the machine shop manufacturing parts on the mill and lathe, as well as assembling the car, testing, and troubleshooting in the garage space

**ACTIVITIES** | **CORNELL OUTDOOR EDUCATION** *NOVEMBER 2015 - PRESENT*  
PADDLE STAFF, OUTDOOR ODYSSEY GUIDE *ITHACA, NEW YORK*

- Backpacking pre-orientation guide for incoming freshman
- Instructor for an introduction to stand up paddle boarding PE class
- Completion of comprehensive leadership training program including Wilderness First Aid certification
- Led a group of 5 undergraduates with a co-guide for 4 nights in the Finger Lakes Region, teaching outdoor skills and fostering relationship

**SKILLS** | **Software:** SolidWorks, ANSYS Mechanical, NX, MATLAB  
**Machining:** Mill, Lathe, CNC Lathe  
**Languages (familiarity):** Python, Java  
**General:** TIG Welding (steel and aluminum), shop skills