

ALEXIS MITCHNICK

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10 Parkwood Lane
Dix Hills, NY 11746

EDUCATION

University of Pennsylvania School of Engineering and Applied Science

Philadelphia, PA

Candidate for Bachelor of Science in Engineering

- *Cumulative GPA*: 3.8/4.0
- *Major*: Mechanical Engineering and Applied Mechanics
- *Minors*: Computer Science, Mathematics
- *Selected Coursework*: Programming Languages and Techniques II, Mathematical Foundations of Computer Science, Mechanics of Solids, Fluid Mechanics

Expected
May 2019

Half Hollow Hills High School West

Dix Hills, NY

- *Cumulative GPA*: 98.5/100
- *SAT*: 2290, 750 Math/740 Verbal
- Member of National Honor Society, National Art Honor Society
- Recipient of Oberlin College Book Award and Board of Education Award

June 2015

WORK EXPERIENCE

ANZE Suspension | Mechanical Engineering Intern

- Completed multiple engineering projects to help boost efficiency in the manufacturing and servicing of racing shocks
- Used Solidworks to design, model, and test tools for shock servicing
- Helped redesign and rebuild the company website, anzesuspension.com
- Used Office 365 technology to manage engineering projects and office organization

Greenvale, NY
June - August 2017

Penn Aerospace Balloon Team | High-Altitude Balloon Engineer

- Work as an altitude control specialist to design, build and implement a system that allows for on-command balloon ascent and descent
- Use Matlab and Simulink to create balloon-path simulations to observe anticipated altitude patterns during flight
- Strengthen abilities as a communicator and team member preparing for bi-semester balloon launches

Philadelphia, PA
August 2016 - Present

LEADERSHIP AND ACTIVITIES

Penn Aerospace Club | High-Altitude Balloon Engineer

August 2016 - Present

Jewish Heritage Program | Event Coordinator

August 2015 - Present

Delta Delta Delta Sorority

January 2016 - Present

Physics Club | Founder

September 2014 - June 2015

Danceline Team | Captain

June 2011 - June 2015

Student Government | Vice President

June 2012 - June 2015

SKILLS AND INTERESTS

- **Programming Skills**: Java, OCaml, Matlab, Arduino, HTML/CSS, git
- **3D Modeling and Fabrication**: Solidworks, laser cutting, 3D printing
- **Interests**: Aerospace, Astronomy, Fine Art, Photography, Art History, Fashion, Dance, Kickboxing