

Dean Amiel

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EDUCATION

University of Maryland -- Honors College -- Entrepreneurship and Innovation Program

A. James Clark School of Engineering

Cumulative GPA: 3.944

Bachelor of Science in Aerospace Engineering

Dean's Scholar

College Park, MD

Expected Spring 2020

Walter Johnson High School

Cumulative GPA: 4.0

APEX Program

Four year program combining accelerated honors level and intensive advanced placement level course work for academically gifted students

ACES Program

Advanced curriculum for excellence in science combines honors level courses and rigorous AP level course to provide talented and motivated students with a broad background in all scientific disciplines

Awards

Top 5% Award, President's Education Award for Outstanding Academic Excellence, Governor's Merit Scholastic Award, Jim Brawley Excellence in Chemistry, Excellence in Calculus, Excellence in Physics, National Merit Commended Student, National AP Scholar, AP Scholar with Distinction

Bethesda, MD

August 2012 – May 2016

LEADERSHIP & PROJECT EXPERIENCE

Truss Payload Project

Designer

College Park, MD

Fall 2016 – Present

- Work with team to develop a truss able to withstand a load of 500lb to 2500lb
- Calculate internal forces within section members and at joints to develop an optimal truss design
- Construct truss based on design specifications
- Compile the design and construction process in a multiple page technical report (upon completion)

Aerodynamic Stall Design Project

Designer

College Park, MD

September 2016 – November 2016

- Collaborated with team to design a wind tunnel prototype
- Constructed wind tunnel prototype applicable for air foil testing and demonstration of aerodynamic stall
- Applied communication and time management skills to complete project in shared work environment

Math National Honor Society

President

Bethesda, MD

August 2015 – May 2016

- Elected and served as president of the Walter Johnson chapter of Mu Alpha Theta (Math National Honor Society)
- Lead and coordinated Mu Alpha Theta activities and programs
- Tutored students in all fields of mathematics

Walter Johnson Mock Trial Team

Team Captain and Lawyer

Bethesda, MD

September 2015 – May 2016

- Represented school in county wide competitions held at the Montgomery County Circuit Court
- Argued cases in front of a judge and large audience
- Developed detailed arguments and complex questions based on months-long case study

APEX Senior Capstone Project

Independent Research

Bethesda, MD

September 2015 – January 2016

- Conducted months of independent research on the future of aviation
- Focused on advancements in sustainable aviation and hypersonic travel
- Project mentored by a Senior Systems Engineer at NASA Goddard Space Flight Center
- Communicated project findings to APEX program coordinators and teachers

SKILLS, ACTIVITIES & INTERESTS

Computer Languages: Java, MATLAB

Other Software: Adobe Photoshop, Microsoft Excel, Microsoft Word, Microsoft PowerPoint

Organizations: American Institute of Aeronautics and Astronautics (AIAA), Engineers without Borders

Languages: Basic understanding of Spanish and Hebrew

Hobbies/Interests: Travel (26 countries), Fitness, Personal Training, Juggling