**Martin Yau** 11712 Castlewood Ct. Potomac, MD, 20854

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**EDUCATION**

**A James Clark School of Engineering, University of Maryland College Park Expected May 2020**

B.S Electrical Engineering

GPA: 3.78

Previous: Winston Churchill High School Graduated 2016

GPA: 4.7 (Weighted) 3.91 (Unweighted)

SAT: 2230 Writing (800) Reading (690) Math (740)

**SKILLS**

* C, C++, Java, HTML, Python, UNIX
* Eclipse, Autodesk Inventor, MatLab, CLion, Sublime Text, Visual Studio, Arduino, Microsoft Office (Powerpoint, Excel, Word)

**RESARCH AND WORK EXPERIENCE**

* + IT Technician, Office of Academic Computing Services (UMD) February 2017 – present
    - Provided classroom support and IT services for faculty and students on campus to resolve hardware and software issues such as network registration, remote access, and repairing computers.
  + Research Assistant, Atmospheric and Oceanic Sciences (UMD) September 2016 -present
    - Configured and constructed circuit boards with Python to serve as low-cost high density smart sensors for analysis of weather and greenhouse patterns in an urban environment.
    - Attended weekly meetings to collaborate with group on development of sensors, experimentation of sensors, and analysis of data.
  + Research Intern, Center for Biologics Evaluation and Research, FDA (Mentor: Dr. Sreenivas Gannavaram) June 2015- August 2015
    - Extracted macrophage from bone marrow of mice and independently performed experiments.
    - Used software to analyze and evaluate effect of treatment on leishmaniasis on cells in mice kidneys and presented data.
  + Student Spaceflight Experiments Program Mission 11 Participant September 2016-present
    - Collaborated with team to research and write an experiment proposal to test the effect of microgravity on bacteriophage replication and infection through weekly meetings.

**HONORS AND AWARDS**

* University of Maryland Honors College: University Honors August 2016 – present
* Dean’s List Fall 2016
* Dean’s Scholarship Fall 2016
* Certificate of Meritorious Service Award Spring 2016
* AP Scholar With Distinction Award Fall 2015
  + All County Junior/Senior Honors Band (Clarinet) August 2012-2014

**EXTRACURICCULAR ACTIVITIES**

* + Engineers Without Borders Member September 2016- present
* Assisted in design and modeling of structural components for bridge construction in Peru using Autodesk Inventor.
* Researched and calculated electrical components and requirements for constructing a water pump for a school in Ghana.
  + Solar Decathlon Member September 2016 - present
* Assisted in construction of PV arrays, inverters, and monitoring equipment for experimentation.
  + Institute of Electrical and Electronics Engineers Member September 2016 – present
  + Cabin John Middle School Tutor August 2013-May 2016

- Individually tutored five middle school students weekly in the subjects of math and science.

* Founder and President of the Make a Wish Foundation Club August 2015-May 2016
  + Presided over weekly club meetings, organized fundraisers, and delegated duties to officers.
* High School Affairs Regional Director for Student Member of the Board Advisory Committee August 2015 – May 2016
  + Presided over monthly meetings and assisted in implementation to facilitate access to wireless internet and healthier meals in schools by counseling student executive.
* Winston Churchill High School Ambassador August 2014- May 2016
  + Supported the integration of freshmen into high school by serving as a mentor to two students throughout their first year.
  + Homeless Opportunities Commission Tutor (Waverly House) August 2013 – March 2016
    - Assisted elderly individuals on computer use, resolving technical issues, and individually tutored seniors weekly.