

Aaron Rapaport

Education

- June 2020* **Bachelor of Science, Mechanical Engineering and Nanotechnology Minor,**
Union College, Schenectady, NY.
GPA: 3.1
- June 2016* **High School Diploma,** Chadwick High School, Palos Verdes Peninsula, CA.

Technical Skills

- Programming:* Python, Java, Javascript, RobotC, Arduino, and Visual Basic
- OS:* Arch Linux, CMD, and Bash Scripting
- Microscopy:* SEM, AFM, cAFM, and FTIR
- Software:* Solidworks, LaTeX

Engineering Experience

- [2017 - 2018] **Inkjet Printing Nanomaterial Films for Solar Applications** *Research Project*
A project I designed and currently work on with Professor Michael Hagerman to develop printable Bulk Heterojunction Solar Cells. I test a printer, synthesize inks, make prints, and characterize them.
- [2016 - 2018] **Nanotechnology Lab Research** *Labwork*
I explore chemical syntheses of heterointerfaces of graphene, polyaniline, and nanosphere materials. I have done SEM, AFM, cAFM, and FTIR on films and powders made in our lab.
- [2017 - 2018] **RC Airplane Design** *Project Management*
As the Vice President and President of UC Aero I have worked to design wings, fuselages, and tails and develop methods to manufacture and combine these parts for the lowest weight.
- [2016 - 2018] **RC Airplane and Multicopter Building** *Personal and Club Projects*
I have been building planes with UC Aero since my Freshman year of college. More recently I've started working on building hex-copter and designing a park flyer.

Leadership Experience

- 2018 - 2019* **President,** Union College SAE Aero
- 2017 - 2018* **Vice President,** Union College SAE Aero
- 2017 - 2018* **Producer,** Union College Musical Theater Club
- 2017 - 2018* **President,** Union College Musical Theater Club
- 2016 - 2017* **Technical Director,** Union College Musical Theater Club

Awards

- Research:* Union College Presidential Green Grant 2018 and 2017, Union College Summer Research Fellowship 2018, Global Fouandries Summer Scholarship 2018
- Academic:* Union College Presidential Scholarship, Union College Dean's List 2017, SAT National Merit Scholar Award
- Leadership:* National Leadership Honor Society (OAK), Eagle Scout Award, BSA Order of the Arrow
- Other:* Presidential Gold Community Service Award, CETA Outstanding Theatrical Work Award 2014, 2015, and 2016, Audobon Yes! Award