*Education*: **Mechanical Engineering,** *University of Cincinnati* Class of 2020

Astrophysics & Philosophy Minors; Univ. Honors Program; Dean’s List; International Co-op Program (Japan) GPA 3.56/4.0

**Gilbert A. Dater High School,** *Cincinnati, OH* Class of 2015

Salutatorian; Graduated with Honors; Outstanding Perfect Attendance (5 years) GPA 4.0/4.0

*Experience:* **IHI Aerospace Company, Akishima, Tokyo, Japan (academic co-op)** 2/19-present

-Researching acoustic liners for airplanes, doing both analytical and simulation analysis

-Improving Japanese skills while working in a cross-cultural environment

**Fuzzy Logic UAV Research at University of Cincinnati (started as academic co-op)**  5/17-present

*-*Programming UAVs to integrate them into national airspace using fuzzy logic concepts in MATLAB

*-*Formulated rule base and created simulations to model UAV motion in sense and avoid scenarios

**Univ. of Cincinnati Communication Services Copy and Printing Dept. (Work-Study)** 9/15-1/19

-Operate binding and duplicating machinery in printing, assembling, and finishing of products

**Astrophysics Data Analysis Research** 9/18-12/18

*-*Analyzed data from multiple stars from telescope observations, running it through IDL

*-*Gained spectra of elements and other essential data through different filters

**Engineering TA at Chong Qing University, China (academic co-op)** 12/16-4/17

-Acted as TA to Heat Transfer, Manuf. Processes, Statics & Particle Dynamics& Engineering Models 2

-Helped with labs, held office hours, taught sample problems, graded papers & proctored exams

-Culturally immersive program in order to promote cross-cultural exchange

**CEAS Peer Leader:** led Learning Community twice a week of 1st year engineering students 8/16-12/16

-Acted as a mentor and peer simultaneously, introducing them to resources on campus/college life

-Provided students with a resource and friend who has many of the same experiences

**Student Orientation Leader-** introduced new students to the University of Cincinnati main campus 4/16-8/16

-Developed leadership abilities and capabilities to turn on a dime and think critically

-Worked with students in small groups & parents, answering any questions they may have about UC

*Awards*: **National Science Foundation Grant** **NASA/OSGC Scholarship Red Rose Award for Leadership**

**E .Wayne Kay SME Scholarship 2015 & 2016 Boren Scholarship Nomination Cincinnatus Scholarship**

# Charles H. Dater Foundation Scholarship 2016 GE Women’s Network/SWE Scholarship

**Featured by UC Marketing and College of Engineering of Applied Science on UC Promotions Materials**

*Leadership:* **President,** Astronomy Club- discussing astronomical topics, guest speakers & hosting movie nights 4/16- 4/18

-Organized overnight stargazing trips at the Cincy Astro. Society dark sky sites that hundreds attended

**Membership Chair- Ipals,** student volunteers for UC International *(member since 2016)* 9/17-4/18

-Recruited new Ipals/Goes on trips around America with international students/Helped at Ipals Lounge

**Design Chair,** Engineers without Borders (have also been in Nyambogo & Botswana committees)4/17-4/18

*-*Designing posters about EWB mission of clean-water systems and working with NGOs to fund them in Tanzania

*-*Also went on an implementation trip to Tanzania to run pipeline for a schoolhouse in Roche in January 2019

**Marketing Chair**, American Society of Safety Engineers (previously VP in 2015-2016) 4/16-4/17

-Marketing events through social media & advertising to inform others of the necessity for safety in engineering

*Prof. Memberships:* **SWE, Alpha Lambda Delta & Omicron Delta Kappa Honor Societies, Tae Kwon Do Club member (since 2018)**

*Involvement:* **Worldfest Week 2016:** Singlehandedly created video about international student experiences

* Also secured sponsorship for luncheon/discussion centered around topics of documentary

**Young Americans for Liberty, UC World Friends, Philosophy Club, St Monica St George choir, Japanese Student Society**

**Cubecats:** **Leopard Power Committee member**- helped with designing/implementing solar panels on CubeSat 6/18-present

*Skills:* IDL/ATV, JavaScript, Learning Japanese & French, MATLAB, Microsoft Office & Publisher, NX-12, Python, SolidWorks

*Volunteering:* **Social Mentor,** TAP program- mentored 4 UC students with developmental disabilities (one per year) 2015-2018

*Team Leader: Into the Streets UC Initiative, Cinci. Library Book Sales, Freestore Foodbank*

*Interests:* Cultures & Languages, Singing, Crafting, Writing Poetry, Reading, Scientific Innovations, Drawing