

AURELIA WALLER

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I am an Astronomical and Planetary Sciences Undergraduate student at Arizona State University and Psyche Inspired Intern. As someone who is currently working with a NASA mission and has completed other programs with the NASA agency, notably winning the first round in a competition for designs to use for the Artemis mission, I know I will be a valuable asset.

EXPERIENCE

DEC 2020 – PRESENT

PARTICIPANT, AFWERX

- Talking with industry leaders including the United States Air Force and United States Space Force with game implementation for strategic purposes.
- Discussing AI and how it can be incorporated to increase performance accuracy while decreasing lag and input.

DEC 2020 – PRESENT

Participant, ASGSR 2020 Decadal Survey

- Participated in the Materials Science and Combustion Town Hall
- Participated in the Complex Fluids, Fluid Physics, and Biophysics Town Hall
- Participated in the Education, Diversity, Inclusion, and Equity Town Hall
- Participated in the Plant-Research Town Hall
- Participated in the Microbiology Town Hall

AUG 2020 – PRESENT

PSYCHE INSPIRED INTERN, ASU SKYSONG, ARIZONA STATE UNIVERSITY

- Create creative works for the ASU-led NASA Psyche Mission. There will be four projects total.
- My project one got released with the launch of Dragon Crew-1 mission. Link to official Twitter release:
<https://twitter.com/MissionToPsyche/status/1327368748500586499?s=20>

JUN 2017 – PRESENT

STAGEHAND, ASSOCIATED STUDENTS, SAN DIEGO STATE UNIVERSITY

- Set up and tear down of concerts and events. This includes lights, audio, video, automation, and staging.
- Camera Operator, Robotic Lights Operator and Spotlight Operator for professional
- Performed rehearsals with national and international groups.
- Set up of SDSU basketball court and associated tables and chairs.
- Loaded and unloaded trucks. Safety was of the utmost importance.
- Performed these tasks at Viejas Arena and SDCCU Arena
- Got people hired based on my work performance.

SEP 2016 – PRESENT

STAGEHAND, HANDS ON LABOR

- Set up and tear down concerts and festivals. This includes lights, video, audio, automation, staging, mobile staging, and backline.
- Loaded and unloaded trucks.
- Worked safely in performing all tasks.

JUL 2015 – OCT 2019

STAGEHAND, RHINO STAGING AND EVENTS PRODUCTIONS

- Set up and tear down concerts and festivals. This includes lights, video, audio, automation, staging, mobile staging, and backline.
- Loaded and unloaded trucks.
- Worked safely in performing all tasks.
- Boom lift certified.
- Got people hired based on my work performance.

AUG 2010 – NOV 2010

WAREHOUSE ASSOCIATE, SAFELITE AUTO GLASS

- Conducted accurate and productive audits of warehouse inventory.
- Effectively delivered auto glass and other components to customers in a timely fashion. This included money transactions.
- Performed in-house repair of minor glass defects.
- Safely operated scissor lifts and forklifts.

AUG 2004 – JUL 2010

MACHINIST MATE (NUCLEAR), UNITED STATES NAVY

- Performed preventative and corrective maintenance on Naval vessels.
- Performed troubleshooting of nuclear propulsion plant and auxiliary machinery and equipment.
- Read blueprints and schematics to locate and isolate valves and/or switches for pneumatic and hydraulic systems to ensure system integrity and personnel safety while performing maintenance.

- Received Navy "E" ribbon, Navy Good Conduct (2 times), Global War on Terrorism

Service Medal, Sea Service Deployment ribbon and National Defense Service Medal.

EDUCATION

AUG 2020

ASTRONOMICAL AND PLANETARY SCIENCES, ARIZONA STATE UNIVERSITY

- Accepted into the inaugural class of the Astronomical and Planetary Sciences program at Arizona State University.
- Got an internship my first official semester at ASU.

MAY 2020

ELECTRICAL ENGINEERING, ARIZONA STATE UNIVERSITY

- Took my first semester classes at Arizona State University. Had a 4.0 in my classes. The summer semester is still in session.
- Took Calculus I, Microeconomics, English 101, and Introduction to Engineering.

SEP 2019

AEROSPACE ENGINEERING/BIOLOGY, ARIZONA STATE UNIVERSITY

- Had a 3.04 GPA before transferring to Arizona State University.
- While in school I published a scientific research paper in the Journal of Double Star Observations.
- Successfully completed Honors in Astronomy.
- Successfully completed the NASA Community College Aerospace Scholars program.

FEB 2015

WELDING FABRICATION, CENTER FOR EMPLOYMENT TRAINING

- Learned how to proficiently and professionally weld using stick, oxy-acetylene, MIG, TIG, Flux Core techniques.
- Proficient in using the plasma cutter. Graduated.

MAR 2006

NUCLEAR PROTOTYPE TRAINING, NUCLEAR POWER TRAINING UNIT, BALLSTON SPA

- Gained hand-on experience operating and running a nuclear propulsion plant and its auxiliary components.
- Log-keeping and maintenance were our main tasks.

SEP 2005

NUCLEAR POWER SCHOOL, NAVAL NUCLEAR POWER TRAINING UNIT

- Lecture based learning of operating and running a nuclear propulsion plant.
- Ranked in the top 15%.

FEB 2005

MACHINIST MATE NUCLEAR FIELD "A" SCHOOL, NAVAL NUCLEAR POWER TRAINING UNIT

- Lecture based and hand-on learning of how to use hand tools, power tools and rigging.

SKILLS

- NASA Technology Taxonomy
- NASA Proposal Writing
- CAD
- Python
- Adobe Photoshop
- Teamwork
- Preliminary Design Review Document
- Project Schedules
- Blueprints
- Schematics
- NASA Proposal Evaluation
- JMARS Software (Planetary GIS)
- Microsoft Office Suite
- Adobe Premiere
- Adobe After Effects
- Adobe Audition
- Communication
- Leadership

- Collaboration

- Soldering

ACTIVITIES

Experience Type: Participant

Describe Your Experience: Participating in the ASGSR Decadal Survey. We are planning what NASA will study for the next ten years. . 12/2020 -Present

Experience Type: Membership

Describe Your Experience: Member of IEEE ASU Student Branch. 05/14/2020 -Present

Experience Type: Membership

Describe Your Experience: IEEE PES ASU Student Chapter 05/19/2020 -Present

Experience Type: Membership

Describe Your Experience: Planetary Society. Currently learning Space Advocacy 101. Should be completed by 7/10/2020. Participated in Space Advocacy by sending letters to Congress and the White House. Recruited additional members into the Planetary Society. Backed a project.

06/24/2020 -Present

Experience Type: Membership

Describe Your Experience: Member of Code Devils Club at ASU. I am learning some additional coding skills within the club.

04/25/2020 -Present

Experience Type: Professional Learning Experience

Describe Your Experience: Participating in the AT&T Externship with AT&T Learning Academy. Skills learned are: Leadership, Sales, Ethics, Well-being, Customer Relations, Resume Writing, Interview Skills, Professional Business Practices and Communication.

06/22/2020 -Present

Experience Type: Training

Describe Your Experience: Obtaining my Private Pilots License with Fly San Diego. Currently, I have 3.2 hours (due to funding).

01/31/2020 -Present

Experience Type: Professional Learning Experience

Describe Your Experience: I participated in NASA Community College Aerospace Scholars, an online experience of learning about NASA's history and the past, current, and future missions of NASA and an onsite experience at NASA Johnson Space Center where I was the Project Manager.

06/15/2019 -09/27/2019

Experience Type: Professional learning Experience

Describe Your Experience: Lucy Student Pipeline Accelerator and Competency Enabler. Served as Project Manager of a team of five in which we developed a Preliminary Design Review for a probe as a secondary payload for the Lucy mission.

05/07/2019 -07/30/2019

Experience Type: Professional Learning Experience

Describe Your Experience: NASA Proposal Writing and Evaluation Academy in which I was the Project Manager of a team of 10. We are to write a seven-page proposal that aligns to NASA's mission and have it reviewed by a NASA reviewer.

09/03/2019 -Present

Experience Type: Professional Learning Experience

Describe Your Experience: Participant in Boyce-Astro Intro to Photometry requesting telescope imaging of star systems for exoplanet data analysis. Successfully located and measured an exoplanet (TRES-1).

07/15/2019 -Present

Experience Type: Professional Experience

Describe Your Experience: Participant in Boyce-Astro DoubleSTARS. I published a scientific paper with the Journal of Double Star Observations with my team of two other people where I was the Team Leader. As a team, requested telescope time and performed data analysis.

01/21/2019 -05/18/2019

Experience Type: Volunteer

Describe Your Experience: Museum Ambassador and Membership Services Volunteer at the Fleet Science Center. I greeted guests and provided information about the museum. I also ensured guest safety while in the IMAX Theater. As Membership Services Volunteer I completed data entry.

01/28/2019 -Present

Experience Type: Volunteer

Describe Your Experience: Volunteered on the Midway Museum in the Air Wing Department helping in aircraft restoration.

04/09/2018 -07/30/2018

Experience Type: Volunteer

Describe Your Experience: Volunteered as a server for the Joggin' For Frogmen event. Ensured responsible alcohol consumption and behavior for United States Navy Seals, their families, and supporters.

07/21/2017 -Present

Experience Type: Membership

Describe Your Experience: Member of the San Diego Community College Astronomy and Space Science Club. Set up and operation of telescopes (solar and nighttime viewing) for students and faculty, member recruitment and outreach.

01/21/2019 -Present

Experience Type: Membership, Leadership

Describe Your Experience: Director of Outreach for the San Diego Mesa College Engineering Club. Coordinate outreach activities for the club and between clubs.

01/21/2019 -Present

Experience Type: Membership, Leadership

Describe Your Experience: President and Vice-President of the Music and Audio Club (The Art Institute of California- San Diego). Successfully lead and coordinated events for the club which included recording sessions, school sponsored-events and field trips.

08/29/2015 -07/30/2018

Experience Type: Professional Experience

Describe Your Experience: Participated in the 2019 NASA Earth Science Decadal Survey Community Forum.

09/29/2019 -Present

Experience Type: Professional Experience

Describe Your Experience: Participated in the 2018 NASA Decadal Survey Community Forum. 05/10/2018 -Present

Experience Type: Professional Experience

Describe Your Experience: Participated in the NASA Fundamental Physics Workshop 2018.

04/09/2018 -Present