William (Po Chun) Chou

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SUMMARY

Full-time international student pursuing a bachelor's degree in aerospace engineering. Extremely passionate about the space industry. Previous work/ project experiences include applications of modeling software, assembling hardware, and image analysis.

EDUCATION

B.S.E., Aerospace Engineering *(Astronautics)* Graduating May 2026
Arizona State University (ASU), Tempe, AZ
Honors & Awards: New American University Scholarship recipient (2023 – 2025)

A.A.S., Science & Arts Graduated March 2023
Everett Community College (EvCC), Everett, WA
Honors & Awards: President's List: 2021 - Winter 2023, International Education Center Recognition Award, Competitive International Student Leader, Merit & Service Scholarship Recipient 2022

PROFESSIONAL EXPERIENCE

Intuitive Machines, Phoenix, AZ: (Co-Op Internship) Lunar Data Analytics Intern Feb. 2025 – Present
- Created controlled mosaics using ShadowCam and LROC data to support current research projects and upcoming exploration
- Co-published abstract "Illuminating Artemis' Way" for the 2024 American Geophysical Union Meeting
- Assist NASA's Artemis III mission by making controlled mosaics for candidate landing sites using the Narrow Angle Camera (NAC) images and ShadowCam images

NASA Psyche Mission, Tempe, AZ: Engineering & Design Capstone Coordinator Sep. 2024 – Feb. 2025
- Assist in mentoring senior capstone teams from around the country in many different disciplines
- Organizing projects, events, capstone materials and equipment loans, document project deliverables, and coordinate resources
- Preparation of presentations, reports, and data analysis

Lunar Reconnaissance Orbiter Camera (LROC), Tempe, AZ: Undergraduate Research Aide June 2023 – Sep. 2024
- Assist NASA's Artemis III mission by making controlled mosaics for candidate landing sites using the NAC images
- Presented at LROC Science Team Meeting about NASA's Artemis III Landing Site NAC + ShadowCam
- Provided data validation support to the Principal Investigator and LROC Science Operations Center staff

TECHNICAL SKILLS

Design and Modeling Tools: AutoCAD, CATIA, SOLIDWORKS, OpenRocket, ANSYS
Programming/ Software: Arduino, Linux, Integrated Software for Imagers and Spectrometer (ISIS), Adobe Photoshop, MATLAB
Certifications: National Association of Rocketry (NAR) Level 2 certification – (2024), Aerospace Composite Materials Technician Certification (2021), Occupational Safety and Health Administration (OSHA) 10 hours training Certification (2021)

PROJECTS

High Power Rocket (ASU) Spring 2024
Design and developed a rocket that flies up to about 6000 ft:
- Designed a high attitude tolerance airframe (CATIA, AutoCAD)
- Ensured compliance to Design Control Procedures according to NAR

Carbon Fiber Monitor Stand (EvCC) Summer 2021
Collaborated in a team of four to design model of custom monitor stand made with Carbon Fiber (SolidWorks):
- Developed team meeting schedule, including quality measurement for each major milestone (Google Docs)
- Able to produce 10 computer monitor stands in 2 weeks

PUBLICATIONS & EXTRACURRICULAR ACTIVITIES

- Co-author of: Collins, William, et al. "Optimized Illuminated Terrain Coverage of The Candidates ARTEMIS III Landing Sites With LROC NAC And ShadowCam Controlled Mosaics." Lunar and Planetary Science Conference (LPSC), 11 Mar. 2024, www.hou.usra.edu/meetings/lpsc2024/pdf/1775.pdf.
- Co-author of: Carr, Natalie, et al. "Illuminating Artemis' Way: Shadowcam and LROC NAC Multi-Instrument Mosaics of Artemis III Candidate Landing Sites." AGU, AGU, 11 Dec. 2024, agu.confex.com/agu/agu24/meetingapp.cgi/Paper/1593549.
- American International Recruitment Council (AIRC), Student Voices Plenary Panel Speaker (12/8/2023)
- Everett Community College, STEM (Rocket) club, Executive Safety Officer (2021)
- Everett Community College, STEM 101 Student Panel Guest Speaker (2/13/2024)
- Arizona State University, International Students and Scholar Center (ISSC) Student Panel Speaker (3/22/2024)
- Arizona State University, Students for the Exploration and Development of Space (SEDS) Rocketry club member (2023)