Mark Agban

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EDUCATION

University of California, Los Angeles, *Westwood, CA* **GPA: 3.4** **Expected Graduation: March 2027**

B.S. Aerospace Engineering

College of The Canyons, *Santa Clarita, CA* **GPA: 3.94** **June 2021 - August 2023**

- Dual Enrollment throughout High School

RELEVANT EXPERIENCE

Disabilities & Computing Program, UCLA – Lead Accessibility Engineer **September 2023 – Present**

- Serving as an Accessibility Engineer, dedicated to enhancing PDF accessibility as part of the University Web Accessibility Initiative (UWAI).
- Conducting in-depth consultations on document accessibility, specializing in remediation for PDF files.
- Proactively contributing to the promotion of inclusive and accessible digital content within the university community.

Lamsco West, Santa Clarita, CA – Manufacturing Engineer Internship **June 2025 – September 2025**

- Applied and interpreted Boeing, Lockheed Martin, Raytheon, and Northrop Grumman specifications and drawings across machining, laminating, plating, and inspection processes to ensure compliance throughout production.
- Resolved manufacturing issues (e.g., waviness, delamination, tool wear) by developing solutions that balanced shop-floor constraints with strict aerospace quality standards.
- Engaged with teams across the company - from production to management - to translate aerospace prime specifications into executable processes, delivering solutions documented through root-cause analyses and compliance reports.

Haas Automation, Oxnard, CA – Mechanical Engineer Internship **June 2024 – September 2024**

- Utilized SolidWorks, 3D printers, plasma cutters, and bandsaws to manufacture parts for CNC machines that I designed to enhance machine performance and smoothness.
- Designed and implemented an HID-controlled access system for securing high ended machines using employee card scans, solenoid locks, and Arduino-based control. Fabricated custom locking mechanisms with SolidWorks and metalworking tools.
- Inspected parts using engineering drawings and measuring tools on fixtures and manufactured components to validate processes in production.

UCLA – ENGR 96 Group High Powered Rocket (GHPR) **September 2023 – December 2023**

- Developed CAD designs for the GHPR rocket fins using SolidWorks, OpenRocket, and other manufacturing tools such as a laser cutter, enhancing the margin of stability to 1.65 improving by 50%.
- Applied machining techniques (mills, lathe, sanding, fiberglass layups) to fabricate the rocket body tube.
- Successfully launched the GHPR Rocket at Sante Fe Dam, achieving an apogee of 2600 feet, a top speed of 491 mph, and a flawless parachute deployment where the rocket was retrieved intact.

USC SHINE Program – Aerospace Engineer Internship **June 2022 – September 2022**

- Investigated the effects of porous features on airfoil performance in the USC Fluid Structure Interactions Lab by collecting and analyzing experimental data, comparing hole spacing of 10%, 15%, and 20% across the airfoil.
- Collaborated with a team of engineering students to design and simulate a small-scale porous airfoil prototype using SolidWorks and Ansys.
- Fabricated the prototype with stereolithographic 3D printing and validated performance in a water channel using lasers to capture 2D airfoil sections and a high-speed camera to track particle flow..

Skills: Ansys, MATLAB, SAP, SolidWorks, OpenRocket, Java, Excel, Adobe