Julian Michael Mayo de Leon

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PROFESSIONAL PROFILE

Motivated Aerospace Engineering graduate with excellent technical and analysis skills as well as knowledge and experience with industry design software and machining tools.

EXPERIENCE

MadCap Software

Technical Support Analyst, Jun 2022 - Present

- Troubleshooted a myriad of issues ranging from licensing logistics to complex content creation and source control implementation using Git, Salesforce, Zendesk, Microsoft Team Foundation Server, and others.
- Communicated via email and phone solutions to problems concisely and understandably.
- Maintained a rapid response rate to ensure minimal downtime for the user.

Senior Design: Close Air Support A-44 Artemis

Aerodynamics Lead, Aug 2020 – May 2021

- Conducted Lift, Drag, and Moment calculations for each configuration of altitude, speed, and angle of attack of the designed aircraft for each design iteration as the project matured to ensure adherence to the design requirements.
- Worked closely with the Structures Lead to accurately model the aircraft using Solidworks to provide detailed dimensions for conducting aerodynamic, structural, performance, and stability and control calculations.
- Chosen by the Aerospace Engineering Department to represent the Aerospace Engineering major and present the A-44 Artemis to the Provost of San Diego State University as well as industry professionals during the annual Engineering Design Day event.
- Exceeded strict and demanding performance requirements of a close air support aircraft design with a team of 6 students.

Senior Project: Detection of Manufacturing Defects in Ceramic Matrix Composites via Machining Force Signatures

Testing Fixture Designer and Machinist, Jan 2021 - May 2021

- Designed and constructed a testing fixture to detect and measure the forces applied by a vertical mill to a sample of ceramic matrix composites using Fusion360 and a three axis mill, band saw, and lathe.
- Operated the vertical mill and testing fixture to conduct tests on Ceramic Matrix Composites to acquire data which proved that defects in Ceramic Matrix Composites can be detected during machining.
- Cooperated with engineers of Lockheed Martin to iterate and improve the accuracy and reliability of the testing apparatus.

EDUCATION

San Diego State University, San Diego, CA

Bachelor of Science in Aerospace Engineering May 2021

SKILLS

- Computer aided design software: Solidworks, Fusion360, Creo Parametric, FEMAP, NASTRAN
- Microsoft Excel, PowerPoint, Word, The MathWorks MATLAB, LabVIEW
- FDM 3D Printing, Machining, Soldering, Attention to Detail, Bilingual: Tagalog