Julian Michael Mayo de Leon

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PROFESSIONAL PROFILE

Aerospace Engineering graduate currently employed at a Software company while honing and expanding Engineering skills through personal projects.

EXPERIENCE

MadCap Software
Technical Customer Support Specialist I, Jun 2022 - Present

- Troubleshot a myriad of issues across multiple applications ranging from complex content creation via HTML and CSS to source control binding using Git, Salesforce, Zendesk, etc.
- Consistently achieved top performer in areas of resolution rate and number of resolved cases.
- Developed and communicated solutions to customers via email and digital meetings concisely and understandably.

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 using Microsoft Excel 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 and figures 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 in a team with five other 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 via gcode and LabView to conduct repeatable tests on Ceramic Matrix Composites to acquire data which proved that defects in Ceramic Matrix Composites can be detected during machining.
- Presented to and cooperated with engineering industry professionals 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