Julian Michael Mayo de Leon
Aerospace Engineering Graduate

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GitHub

Highly motivated Aerospace Engineering graduate combining technical expertise with a passion for continuous learning. Committed to expanding engineering skills and leveraging cross-disciplinary knowledge to drive innovation.

EXPERIENCE

MadCap Software, San Diego, CA
Technical Customer Support Specialist I
June 2022 – Present

- Applied strong technical knowledge and troubleshooting skills to diagnose and resolve complex customer issues across a wide range of software and hardware platforms.
- Regularly recognized and awarded for resolving the highest number of tickets each month, demonstrating a commitment to exceptional customer service and efficient problem-solving.
- Proactively identified trends in customer issues, contributing to the development of knowledge bases and self-help resources to empower customers to resolve common problems independently.

Project: Detection of Defects in Ceramic Matrix Composites via Machining Force Signatures, San Diego, CA
Testing Fixture Designer and Machinist
Jan 2021 – May 2021

- Employed engineering and software tools to develop an innovative testing fixture that accurately captures and quantifies the machining forces exerted on Ceramic Matrix Composites during the manufacturing process.
- Operated the vertical mill and testing fixture via g code 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 findings and recommendations based on project outcomes, contributing to the broader understanding of Ceramic Matrix Composite material quality assessment and enhancing the industry's knowledge of porosity evaluation via machining forces.

Project: Close Air Support Aircraft Design, San Diego, CA
Aerodynamics Lead
Aug 2020 – May 2021

- Utilized Computational Fluid Dynamics software and mathematical modeling techniques to analyze the aerodynamic performance of the aircraft across a wide range of flight conditions.
- Implemented engineering principles and design modifications to enhance the aircraft's aerodynamic performance, focusing on aspects such as reducing drag, improving lift distribution, and mitigating stability issues.
- Chosen by the Aerospace Engineering Department to represent the Aerospace Engineering major and present the design and discuss design improvements to a panel of faculty and industry experts, effectively communicating complex technical information in a clear and concise manner.
- Demonstrated exceptional attention to detail, problem-solving skills, and critical thinking throughout the project, contributing to the development of the aerodynamics of the design.

SKILLS

Software:
Solidworks
Fusion360
Creo Parametric
FEMAP
NASTRAN
MathWorks MATLAB
LabVIEW
Microsoft Office Suite

Manufacturing:
FDM 3D Printing
Machining
Soldering

Personal:
Adaptability
Attention to Detail
Communication
Problem-Solving
Bilingual: Tagalog

EDUCATION

San Diego State University
Bachelor's of Science: Aerospace Engineering

May 2021

San Diego, CA