Eric Weeks

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Security Clearance: Secret (inactive)

EDUCATION

Bachelor of Science, Major: Aerospace Engineering (May 2023)

San Diego State University, San Diego, CA   August 2018 – May 2023
- Graduated (minor emphasis in aeronautical design), May 2023

Associate degree (Transfer), Math and Science (May 2018)

Mira Costa College, Oceanside, CA, GPA: **3.7**   August 2015 – May 2018

TECHNICAL SKILLS

SolidWorks, CREO, MATLAB, FEMAP/NASTRAN, AutoCAD, Python, and Microsoft Office applications

EXPERIENCE

SDSU Rocket Project, San Diego, CA (August 2018 – January 2020)
Fluids Section Member
- Designed a Helium Release Mechanism (HRM) used for fueling and quick-disconnect (QD) from a bipropellant liquid rocket at a safe distance. The rocket uses RP-1 as fuel and liquid oxygen (LOX) as the oxidizer. The HRM assembly disconnects by the action of two linear pneumatic actuators.
- Collaborated with Manufacturing and Structures departments during all phases of development and test to ensure HRM dimension specifications were met in order to facilitate cost effective manufacturing for design parts and assemblies.
- Successfully designed, produced, assembled, and tested project utilizing SolidWorks.

USMC: Camp Pendleton, CA (January 2011- January 2015)
Infantry Team Leader
- Successfully completed Advanced Technical and Leadership Training program
- Deployment Training team leader
- Duties required flawless time management skills
- Training inclusive for high-stress environment
- Meritoriously promoted twice, good conduct medal, and top of the class in advanced maritime navigation course

Northrop Grumman, San Diego, CA (July 2018 – January 2019)
Assembler
- Proficient at assembling advanced F-35 Backplane assemblies and cable assemblies.
- Assembly procedures utilized manufacturing specification engineering drawings.
- Worked directly with aerospace engineers for problem identification, visual anomalies, data analysis, and resolution.

Wind-Tunnel Testing, SDSU Low Speed Wind-Tunnel (April 2022-May 2022)
Senior Design Project (Student)
- Designed and tested an experimental airframe for advanced aerodynamic flight characteristics to include lift to drag ratio and maximum lift coefficients.

- The prototype was tested and analyzed utilizing multiple interchangeable wing configurations (rectangular, aft-swept, and forward-swept) in a low-speed closed return wind tunnel. The low-speed wind tunnel has a speed range of 0-180 miles per hour while the prototype was tested at a dynamic pressure of 1in H_2O (~46 mph) at different angles of attack and side-slip angles.