

PLATFORM MECHANICAL ENGINEER

As a Platform Mechanical Engineer or Naval Architect at QED Naval Ltd, you will be responsible for the design, development, and optimization of mechanical parts and whole platform but primarily the structural assessment and manufacturing outputs. You will have a strong background in CAD and CAE preferably using Solidworks, Spaceclaim and ANSYS Mechanical. You will work closely with cross-functional teams to ensure the reliability, efficiency, and performance of our products.

RESPONSIBILITIES:

1. Mechanical Design:

- Lead the mechanical design of platforms, considering factors such as structural integrity, thermal management, and manufacturability.
- Utilize CAD software to create detailed 3D models and engineering drawings in Solidworks.

2. Prototyping and Testing:

- Coordinate the prototyping and testing of mechanical components and systems.
- Conduct performance tests and analyse results to validate design specifications.

3. Material Selection:

- Select appropriate materials for platform components, considering factors such as strength, weight, and cost.
- Collaborate with suppliers to ensure the availability of quality materials.

4. Design Optimization:

- Continuously optimize mechanical designs for improved performance, cost-effectiveness, and ease of manufacturing.
- Implement design changes based on feedback from testing and production teams.

- Strong background in structural FEA methods and metal and composite material design.

5. Collaboration:

- Work collaboratively with electrical engineers, software developers, and other team members to integrate mechanical systems seamlessly into the overall platform design.
- Communicate effectively with cross-functional teams to ensure alignment on project goals.

6. Documentation:

- Prepare comprehensive engineering documentation, including design specifications, test plans, and technical reports.
- Ensure that all design and testing activities adhere to industry standards and regulations.

7. Quality Assurance:

- Implement quality control measures to ensure the reliability and safety of platform mechanical systems.
- Collaborate with quality assurance teams to address any issues identified during testing.

QUALIFICATIONS:

- Bachelor's or Master's degree in Mechanical Engineering or a related field.
- Proven experience in mechanical design, preferably in platform development.
- Proficiency in CAD software (e.g., SolidWorks, AutoCAD) and other relevant engineering tools.
- Strong analytical and problem-solving skills.
- Excellent communication and interpersonal skills.
- Ability to work both independently and collaboratively in a team environment.
- Experience with prototyping and testing methodologies.