



GALLEY & CLOSET DESIGN

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The client is a North American company operating in the corporate aviation industry, renowned for its world-class engine maintenance repair and overhaul (MRO) and VIP completion services. The company focuses on the customization and alteration, upkeep, rejuvenation, and green completions of VIP and business jets, notably in the Boeing BBJ and Airbus ACJ families.

Business Challenges

The project encompassed a comprehensive range of technical aspects, involving the development of concepts and detailed designs for Galleys & Closets in accordance with the customer's provided layout, standard processes, and specifications. A key challenge in the design process was the requirement to carry out the design without any interference from existing Electrical and Plumbing installations.


In addition to this, the cabinets were also required to meet specific weight reduction targets, necessitating the incorporation of lightweight materials and innovative design approaches. Achieving these targets required a rigorous and meticulous design process, leveraging the latest CAD software and cutting-edge manufacturing techniques.




Our Solution




The TAAL Tech team conducted a comprehensive input study and analysis to fully understand the customer's requirements. Leveraging our technical expertise and domain knowledge, we then developed the initial concept primarily using Dassault CATIA V5, and other suites of CAD software.



After receiving the customer's feedback and approval, we proceeded to create a detailed design that adhered to the standards, guidelines, and libraries provided by the client. This involved a range of key components, including the creation of bonded assemblies, structural assemblies, placard installation, and electrical and plumbing installation.



To ensure the highest levels of quality and accuracy, we conducted thorough assembly interference checks and gap analysis before submitting the design to the customer for approval. Upon receiving the customer's final approval, our team generated the necessary manufacturing drawings to enable the production of the final product.



Throughout the project, we maintained a strong focus on ensuring that all design elements adhered to the relevant safety and regulatory standards. We also leveraged our extensive knowledge of the aviation industry to identify and address potential design challenges and ensure the final product met the highest levels of performance and durability.

Results Delivered



Leveraging our extensive expertise in delivering superior cabinetry solutions to a broad spectrum of aerospace clientele, the TAAL Tech team demonstrated exceptional agility in executing this project. Our proven track record in delivering bespoke cabinets coupled with our deep-rooted understanding of FAA regulations facilitated the expeditious turnaround of the entire project.

Thanks to our team's proficient FAA experience, we were able to streamline the design process and ensure seamless compliance with certification requirements. The result was a marked reduction in approval time, resulting in significant business outcomes for our client. By minimizing delays in the approval process, we helped our client to optimize their production schedule, enhance customer satisfaction, and drive overall profitability.



Significant business outcomes



Minimizing delays in the approval process

About TAAL Tech

TAAL Tech is a niche Engineering and Technology solutions provider serving global corporations in their pursuit for faster innovation. Our vision is to be a leader in providing innovative, high value engineering & technology services to global corporations. Meet our team and learn more about us.

