



## Padden Design Engineering, LLC



Based in Stuart Florida, Padden Design Engineering, LLC (PDE) is a developer of innovative technologies in the field of advanced composites and provider of world class engineering services. As a small engineering firm, PDE's staff has the technical expertise to design and validate precision components using state of the art design and engineering tools. With over 30 years of experience in the development of commercial and military aerospace programs our staff continues to be creative and innovative producing breakthrough

designs and technologies that have received multiple US and foreign patent awards.

PDE provides specialized engineering services to major aerospace corporations including Northrop Grumman as well as smaller tier suppliers that provide components in the commercial and defense supply chain. Our state of the art design office utilizes enterprise level software including *CATIA V5*, *NASTRAN* and proprietary analysis software. We have the capability to design, analyze and provide test support for product qualification and production. Our staff has experience with the development of both metal hardware and composite components for commercial and military programs. PDE has developed an engineering standard work system with proven processes and procedures in compliance with the AS9100 and ISO9001 quality standards.

Pioneer's in blending the benefits of metals and composites into one synergistic product, Padden Design Engineering, LLC has developed through extensive research and testing a breakthrough load transfer technology capable of replacing traditional metal components with equivalent strength lighter weight composites. These *Composite-Metal Hybrid* components have significant weight savings, high durability and cost effective manufacturing processes. PDE has developed *CMH* rods, links and struts for applications on aircraft landing gear, engine mounts, nacelle systems & pylons. We continue to expand the applications for this technology bringing advancements in lowering weight without sacrificing performance.

The engineering staff at PDE strive to provide our customers with clear achievable goals, manage risk and present our progress throughout each project. Our experience on recent programs includes the F-22, F-35, CH-53K, A320Neo, Embraer E190-E2. We excel at creative solutions to complex problems with rapid response to customer needs. Competitive pricing, knowledge and experience, innovation and advanced technology are just a few of the benefits of bringing our team on board a project and working with Padden Design Engineering.