

# Taking Flight

Leading Delaware's aviation industry

CONTRIBUTED BY ALOFT AEROARCHITECTS



AT ALOFT AEROARCHITECTS, the unyielding drive and focus is to be the premier aviation supplier, providing innovative solutions improving the way we all fly! They are constantly designing and implementing airplane modifications to improve safety, extend flying range, enhance communications abilities, add in-flight entertainment and Wi-Fi systems, and create luxurious and comfortable flying accommodations. Simply stated, their goal is to vastly improve the flying experience for clients in every way they can!

Headquartered in Georgetown, Delaware with an employee base of roughly 300 people, the company formerly known as PATS Aircraft Systems, is a long-standing aerospace supplier with deep roots in specialty aviation component and system design and manufacturing. Their heritage dates back over 40 years to some of the hallmark innovations which remain core product offerings such as the PATS Auxiliary Fuel Systems and the Hollingsead International line of avionics equipment, trays and extractors. The entrepreneurial spirit is still ingrained in the growing business as they find new ways to push the boundaries of technology and innovation in the products and services provided.

Today, ALOFT offers a broad range of products and services including VIP Interior Completions, Aircraft Maintenance, Avionics Installation Systems, and Engineering, Certification and ODA Services. That said, the

product line which is synonymous with the PATS name is the time-proven and ultra-reliable auxiliary fuel systems. And for that reason, ALOFT continues to produce and advance its expertise as the industry leader in this niche business with the legacy branded, PATS Auxiliary Fuel Systems.

## PATS Auxiliary Fuel Systems

ALOFT AeroArchitects is the only company in the world that has designed, manufactured, installed and certified complete and stand-alone auxiliary fuel systems continuously for over 30 years. Today, the PATS Auxiliary Fuel Systems represent the industry standard for safety and reliability and extend the operational range of the world's most popular aircraft by as much as 50 percent.

The PATS Auxiliary Fuel Systems date back to the era when airliners were first being transitioned from commercial service to luxurious VIP aircraft. For the first time, purpose built commercial aircraft with seating for hundreds of paying passengers, were hauling small entourages, maybe 15 or 20 VIPs. This new market niche led to entrepreneurial engineers designing ways to enhance these aircraft for their new missions. During this era, the PATS founder, Harvey Patrick, began designing auxiliary fuel systems to extend the range of many of the most successful, mass-produced classic aircraft such as the Boeing 727, 737, 757 and 767 models as well as



the Fokker 100, Bombardier CRJ200 aircraft platforms. Those early, and successful aircraft modifications are now giving way to the latest forthcoming iterations of the system for the likes of the Boeing B737 MAX and the COMAC ARJ21 as well as applications for other commercial and special mission platforms. Over the decades the system has adapted and evolved as the aircraft have, and to the point that ALOFT is today supporting more than 250 aircraft in the field operating with extended range capability afforded by the PATS Auxiliary Fuel System.

### VIP Interiors

One of the more interesting business channels in this diversified company, is the conversion of commercial-sized aircraft into completely customized business or personal-use jets. ALOFT is widely recognized for its VVIP, Head of State and Executive Interior Completions and is one of the very few companies world-wide with the capability and experience in engineering and delivering customized aircraft conversions of this magnitude. With the utmost attention to every detail, ALOFT designs, builds, installs and aircraft interiors with the highest expressions of luxury, capability and comfort, to meet their clients' every want and need.

"Typical" interior completion projects (as if any can be considered typical) include full staterooms, custom lavatories with showers, custom galleys, full dining tables and spacious lounges with a full complement of Wi-Fi, communications, in-flight entertainment and cabin management options such as video and sound systems, lighting, temperature, automated window-shades, all controlled by the touch of an icon on a hand-held tablet. The expert team of interior installers use the finest seat leathers, silk carpeting, and exotic woods for cabinetry. Each one of the more than two-dozen aircraft interior projects ALOFT has delivered can be considered a work of fine art!

### Aircraft Maintenance

ALOFT is an FAA designated repair station, Boeing Authorized Warranty Service Center and Boeing Business Jet Authorized Interior Completions Center. Maintenance capabilities include all scheduled maintenance checks and calendar inspections, service bulletins and airworthiness directives, and our modification services cover everything from entire interior refurbishments to electrical systems and flight deck upgrades and external sheet metal or composite repairs.

### Component Manufacturing

The Hollingshead International branded line of products offers customers the most advanced avionics installation equipment on the market today. ALOFT, an ISO/AS9100-certified manufacturer, designs and fabricates a complete range of customized avionics extractors, avionics trays, equipment racks and electrical interface systems for most of the biggest names in the aircraft industry. Their precision aerospace manufacturing capability is extensive and fully customizable. Their modern facility is fully capable of performing small and large volumes of build-to-print and full design, manufacturing and certification of systems and components.

### Engineering, Certification and ODA Services

When other aerospace companies have ideas for new products, product improvements or modifications to existing aircraft designs, they often come to ALOFT for their world-class Engineering, Certification and ODA Services to help get their ideas off the ground. ALOFT provides 3rd-party engineering design, certification planning, and full test regiment oversight to gain the required FAA or foreign approvals and certification.

It is often surprising to think that one of the world's leading authorities in the VVIP / luxury aerospace industry is located right in the heart of Sussex County, at the Delaware Coastal Airport. Between the various services, ALOFT AeroArchitects is one of the busiest operations in the county as well as one of the county's biggest employers. ■

Great advice. Great people.



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