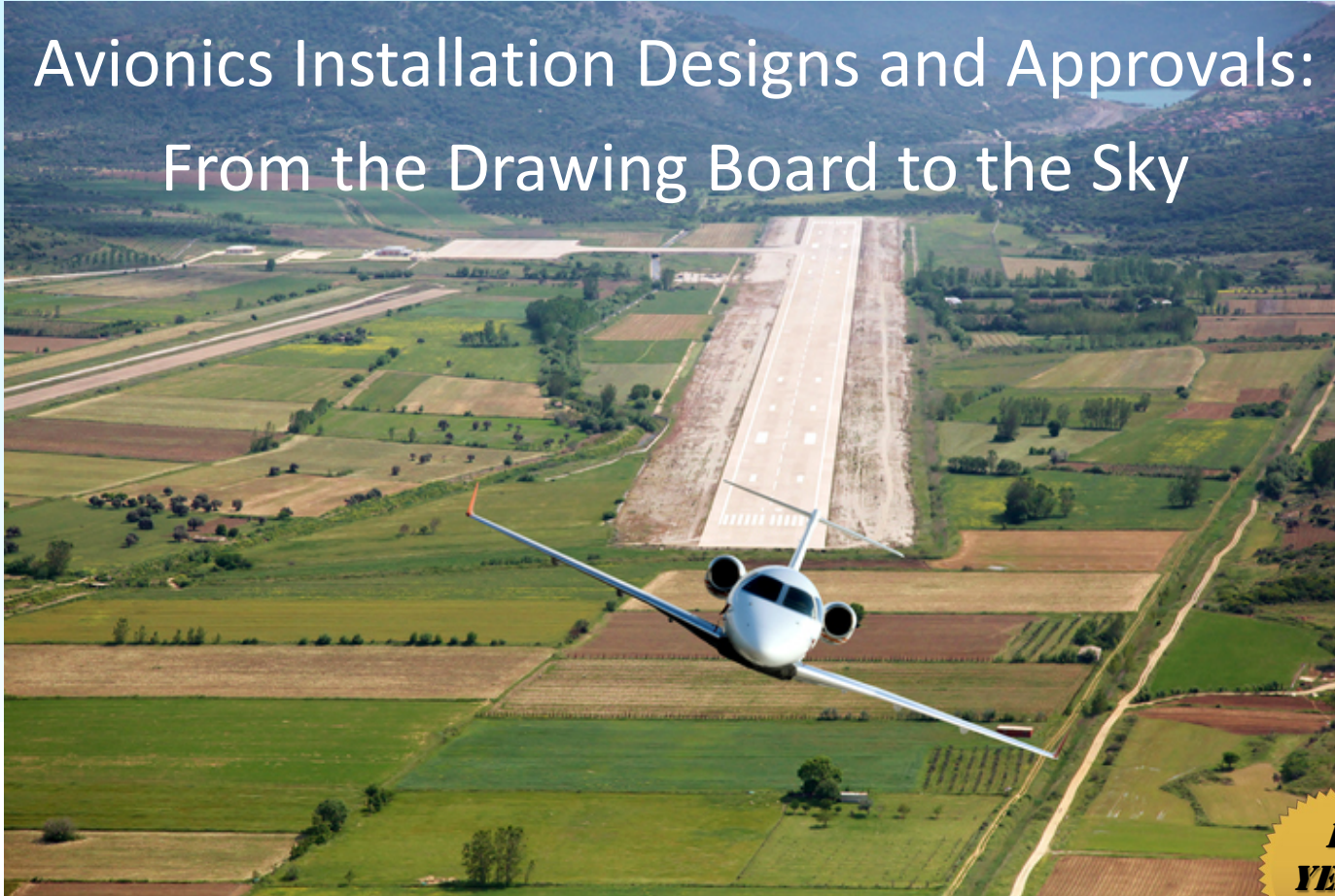


Peregrine

Avionics Installation Designs and Approvals:
From the Drawing Board to the Sky



**10
YEARS**



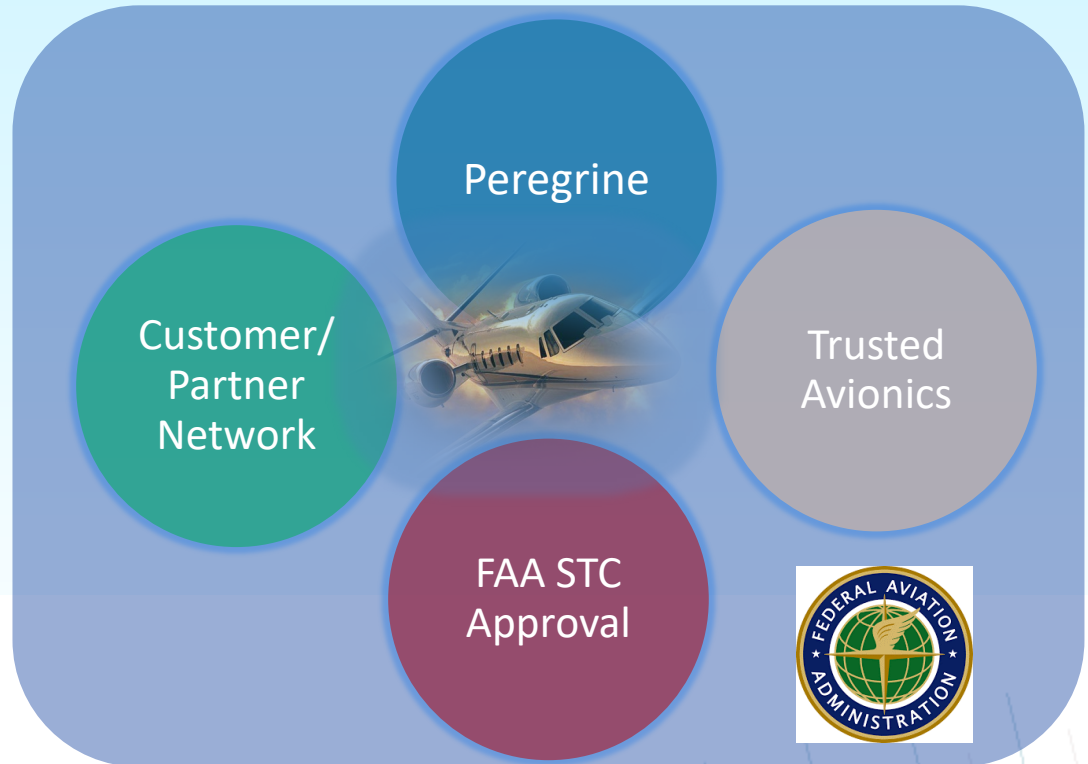
Proprietary and Confidential Information
All figures used in this presentation are
unaudited and rough estimates only

Our Mission

Provide end-to-end FAA-approved **STC** solutions for our **customer/partner network** using **trusted avionics equipment** and proven **FAA certification methods**



*Installing new avionics
in existing airframes*



An STC (Supplemental Type Certificate) is an FAA-approved design change that supports alteration of an aircraft for the purpose of improving safety, functionality, performance, or maintainability



Excellent Facilities - Expansion Potential



Denver, Colorado Metropolitan Area
Centennial Airport (APA)



Peregrine

7385 S Peoria Road
Englewood, CO 80112
+1-303-325-3873
www.peregrine.aero

Centennial Airport

- Leased offices in Hangar 4 at TACAir, east side of Centennial Airport (SE Denver area)
- Engineering, admin offices and shop space totaling 3,250 sq. ft.

Growth

- Ability to expand into hangar space within same building
- Denver metropolitan area has large, diverse aerospace business & labor base
 - The United States Census Bureau estimates that the population was 2,888,227 as of July 1, 2017, an increase of +13.55% since the 2010 United States Census, and ranking as the 19th most populous metropolitan statistical area of the United States
 - <http://www.metrodenver.org/industries/aerospace/>



Peregrine Certification Experience

Many aircraft:



Many systems:

- Flight deck updates
- Attitude Heading Reference Systems (AHRS)
- FANS 1/A system
- ADS-B OUT system
- ADS-B IN system
- TCAS II system upgrades
- TCAS II compatible Mode S
- Flight data recorders
- VHF COM radio
- Parts obsolescence solutions

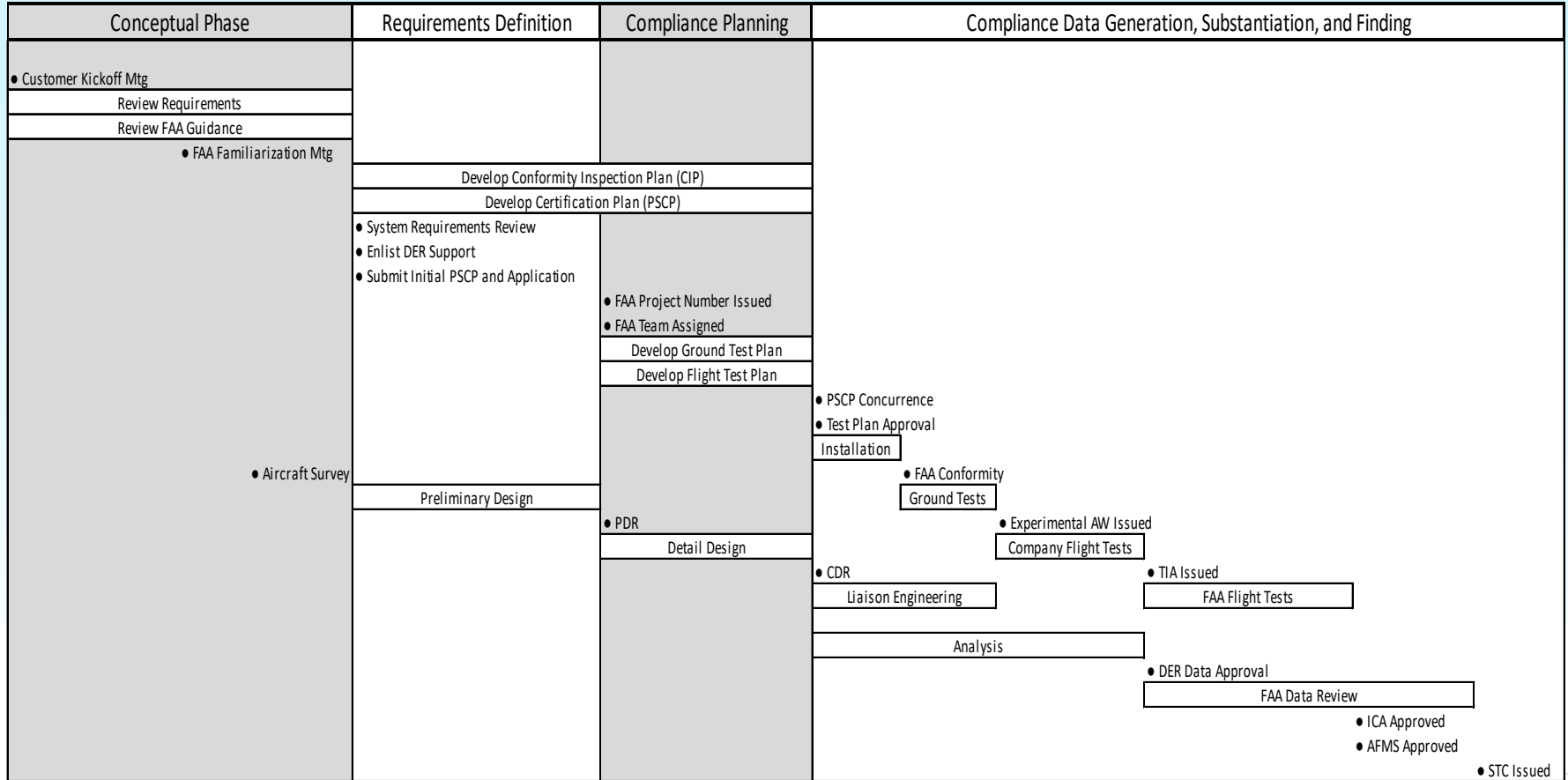


Replacing old avionics with modern systems



Our Institutional Knowledge Provides us with rare expertise in the Complex FAA STC Process

Typical STC Project



Project lengths influenced by many factors



Typical STC Project

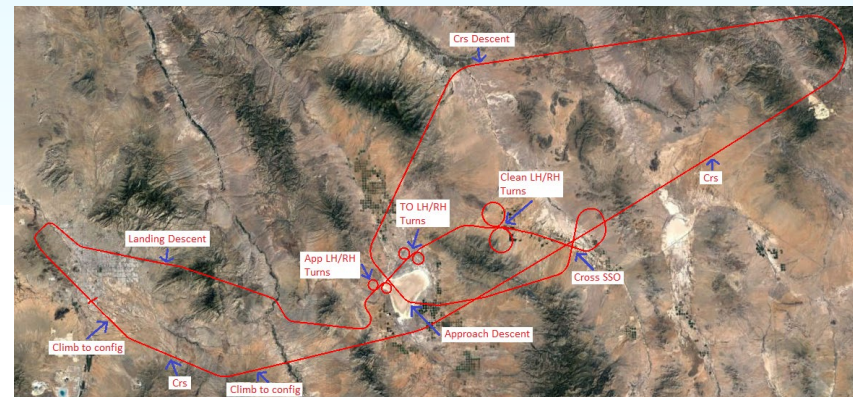
Data Package

Certification Documents	
Document	Description
BAS63022920	Project Specific Certification Plan
BAS63022921	Conformity Inspection Plan
BAS63010136	Master Drawing List
BAS63230215	System Substantiation
BAS63120222	Ground Test Procedure
BAS63180177	Ground Test Report
BAS63110139	Flight Test Plan
BAS63370031	Flight Test Report
BAS63050061	Instructions for Continued Airworthiness
BAS63040223	Airplane Flight Manual Supplement
BAS63070149	System Safety Assessment
BAS63130177	Structural Substantiation
BAS63380025	Compliance Summary Report
Design Data	
Document	Description
BAS63033126	TDR-94D Transponder Installation
BAS63033127	IOC-4000 Card Installation
BAS63022919	ADS-B System Wiring Diagram

Initial System Installation



Ground and Flight Testing



Typical project includes test plan development, test coordination/management, and final test reports.



Peregrine Key STC Completions

STC: SA00744DE, Trig TT31 Transponder ADS-B Out Installation
• Part 23 AML (500+ Aircraft Models)

STC: SA00756DE, Trig TT22 Transponder ADS-B Out Installation
• Part 23 AML (300+ Aircraft Models)

STC: SA00765DE, BendixKing KT 74 Transponder
ADS-B Out Installation
• Part 23 AML (500+ Aircraft Models)

STC: SR00764DE, Trig TT22 Transponder ADS-B Out Installation
• Part 29 Sikorsky S-76A, S-76B and S-76C Rotorcraft

STC: ST00790DE, BendixKing CAS 67B TCAS II
Change 7.1 Installation
• Part 25 AML (Legacy Gulfstream, Falcon, Hawker,
Challenger and Learjet Aircraft Models)

STC: SA00762DE Mid-Continent MD302 Standby Digital
Flight Instrument Installation
• Piper Meridian

STC: ST00813DE DAC International CMA 6800 EFIS Displays
(ED-800 Replacement)
• Part 25 AML (Includes Gulfstream, Falcon, Hawker,
Challenger and Dash 8 Aircraft Models)

STC: SR09654RC FreeFlight Systems RANGR
ADS-B Out/In Installation
• Part 27 AML (Includes Airbus, Bell and Robinson Rotorcraft)

STC: SA09886AC BendixKing CG100P Connected
Gateway Installation
• Part 23 AML (King Air 200/B200)

STC: SR00821DE BendixKing KT74 Transponder
ADS-B Out/In Installation
• Part 27 AML (Includes Airbus, Bell, MD Helicopters and
Robinson Rotorcraft)

STC: ST00835DE Southeast Aerospace Garmin GTX 335/345
Remote Transponder ADS-B Out/In Installation
• Part 25 AML (Legacy Falcon, Hawker and Learjet
Aircraft Models)

STC: SR00828DE Air Methods ADS-B Out Installation
• Part 27 AML (Includes Airbus, Agusta and Bell Rotorcraft)

STC: ST00841DE Bombardier ADS-B Out Installation
• Part 25 (Challenger 604)

STC: SA01822WI True Blue TB44 Lithium Ion Mainship
Battery Installation
• Part 23 (Cessna Caravan 208/208B)

STC: SR00847DE DAC International CMA 6800 EFIS Displays
(ED-800 Replacement)
• Part 29 (Sikorsky S-76B and S-76C)

STC: SR00851DE Air Methods ADS-B Out Installation
• Part 29 (Airbus MBB-BK-117)

STC: ST00857DE Mid-Continent Standby Altimeter
Installation
• Part 25 (Citation III, Hawker 800A)

STC: SA01835WI Trig Avionics TY96 VHF COM Radio
• Part 23 (500+ Models)

STC: ST00883DE DAC International LCR-100 AHRS
• Part 25 (Cessna Citation Excel)

STC: ST00892DE BendixKing KT 74 Transponder ADS-B Out
• Part 25 (Cessna 550)



Peregrine Growing - ODA In Progress

- FAA Rule 8100.15B (**O**rganization **D**esignation **A**uthority)
 - 2- 1.FAA Appointment of ODAs. The FAA may not grant an ODA to every qualified applicant. The FAA will *only grant ODAs when it determines the following*:
 - *The organization's FAA workload is large enough to warrant approval;*
 - *The FAA will benefit from granting the ODA; and*
 - *The FAA has the resources available to manage the authorization.*
- Allows *ODA* to approve certain aspects of certification activities on behalf of the FAA, typically resulting in *streamlining the process (faster turn times)*
- Peregrine submission encouraged by FAA DEN ACO
 - Peregrine submitted application to the FAA for Organization Designation Authorization ("ODA"), in January 2020 and currently working the approval process with FAA



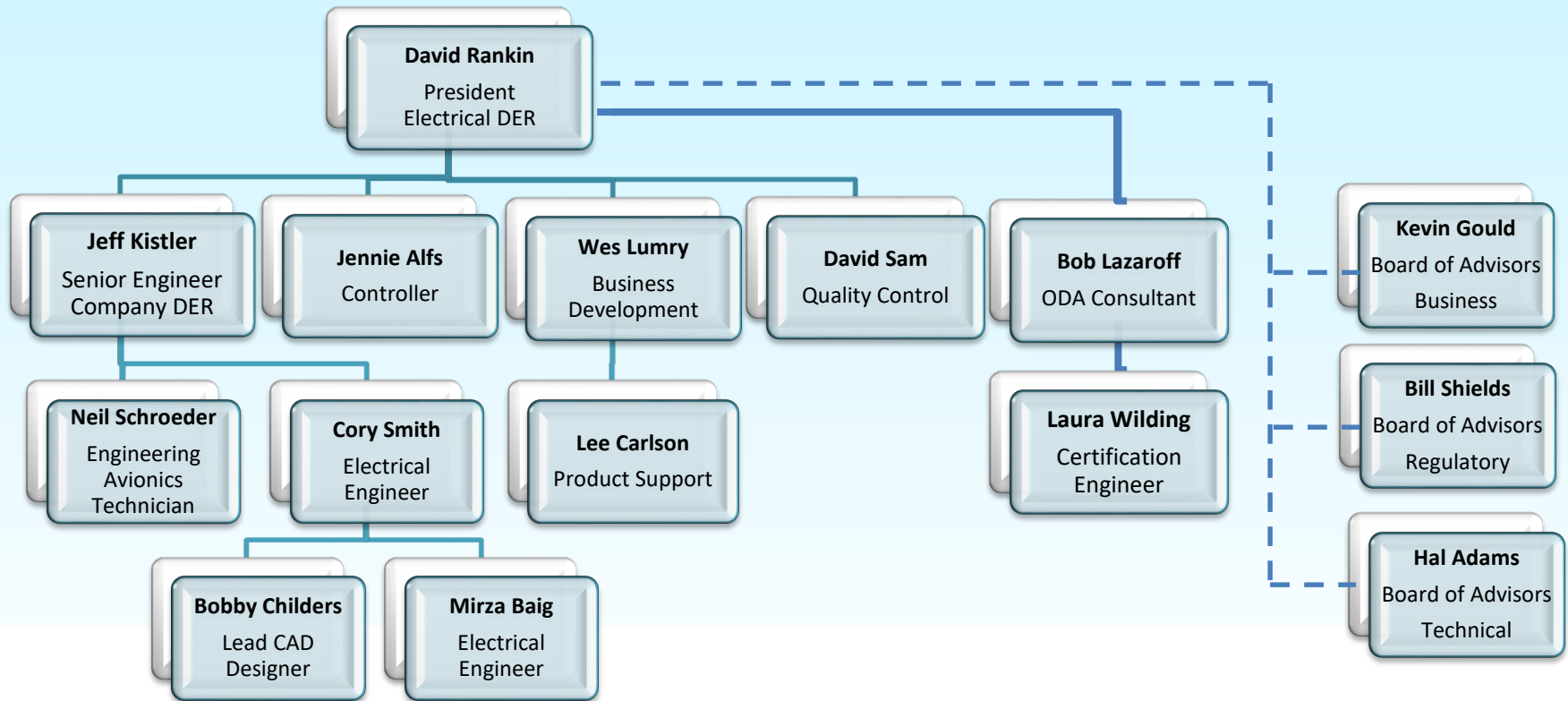
Peregrine Growing - ODA In Progress

- Peregrine is planning ahead, leveraging its skills and knowledge to obtain ODA authorization
- Peregrine has ability to achieve and operate under ODA delegation
- Objective of Peregrine ODA delegation adds significant credibility & capability
- ODA is key enhancement that will allow Peregrine to serve customers in a more efficiently and expeditiously

To date, only 9 ODA (STC) entities have been authorized to make approvals in avionics and electrical systems, *and* offer their services to the broader aviation industry



Skilled and Experienced Team



More details in Supplemental Information

PEREGRINE

Proprietary and Confidential Information

David Rankin Leadership Profile

- **Peregrine Avionics** **2009 - present**
 - **Founder, President and Electrical Systems DER**
 - Led development of 20 STC's covering Parts 23, 25, 27 and 29 aircraft including Gulfstream, Challenger, Falcon, Hawker, Lear, Sikorsky, Piper, Beechcraft, Bell, Robinson, MD Helicopters, Airbus Helicopters, Augusta, Cessna, Citation Jet, and several AML's
 - Grew company to 10 employees and \$1.3m in revenue
- **Adam Aircraft Industries** **2001 - 2009**
 - Director of Systems Engineering: Led 25 engineers and designers to develop electrical and avionics systems included in the Type Certificate for the A500 aircraft in conjunction with both the Denver and Chicago ACO's
 - FAA Designated Engineering Representative for electrical systems on the A500 aircraft
 - Electrical Systems Manager for systems on A500 and A700 models; supported flight test
- **US Air Force** **1995 - 2001**
 - Officer, Development Engineer, Defense Contract Management Agency - Lockheed Martin Astronautics
 - Officer, Development Engineer, Electronic Combat Support Flight - Special Operations Command
- **Education**
 - Georgia College & State University – Masters of Business Administration, 1998
 - United States Air Force Academy – Bachelors of Science in Electrical Engineering, 1995



Peregrine Customer/Partner Network

Peregrine has established itself as a reliable STC resource, trusted by some of the most respected companies in the aviation industry



DACInternational



SoutheastAerospace



BECKER



Tech
Mahindra

TRUE BLUE POWER®
A division of Mid-Continent Instrument Co., Inc.



Trusted/Preferred Equipment

- Trig Avionics
 - ADS-B OUT Mode S Transponders
- FreeFlight Systems
 - ADS-B OUT/IN UAT Transceivers and GPS WAAS Sensors
- Becker Avionics
 - ADS-B OUT Mode S Transponders
- Garmin Avionics
 - ADS-B OUT Mode S and Flight Displays
- Mid-Continent Standby Attitude Module
- True Blue Power
 - Main Ship Lithium Battery
- CMC Electronics
 - Flight Display and GPS WAAS Sensors
- BendixKing
 - TCAS II (Traffic Collision Avoidance System)
- Northrop Grumman LITEF
 - Attitude Reference Heading System



Customers Feedback

“Peregrine has been a big help on short notice in providing engineering support for our Learjet avionics installations. We appreciate their experience and responsiveness.”

- James Bohart, Avionics Manager, Trine Aero

“I really appreciate everything that the Peregrine team has done to support our ADS-B Out installations on the Citations. With their STC data and their engineering support, we have been able to install and release aircraft in a timely manner with a quality system installation. Our customers have been very happy with the low down time for installation as well as the exceptional performance of their new system.”

- Ben Doying, Avionics Department, Eagle Aviation

