

## COMPANY INFORMATION

**F3 SOLUTIONS (F3)** is a certified Woman Owned Small Business (**WOSB**) and Department of Transportation certified Disadvantaged Business Enterprise (**DBE**) providing quality professional engineering services from concept through completion, dedicated to exceeding customer expectations. Our commitment to high standards of client service, employee development, ethical practice and reasonable profit enables us to provide value through innovation and creativity. We consistently align with our client goals, and deliver services that meet quality, schedules and cost objectives. Our dedication to upholding our **ISO 9001:2015 certified Quality Management Systems** enables us to consistently align with our client goals, and deliver services that meet quality, schedules, and cost objectives.

Our key management personnel have over 100 combined years of corporate experience in providing professional services for Defense and Federal Agencies and Private Industry clients. Our company's flexibility and background allows us the opportunity to effectively compete in small business as well as full and open acquisition programs. To continually improve performance, F3 initiated an executive advisory team with extensive logistics, acquisition, FMS, and maintenance experience providing innovations and industry best practices.

Our team, which includes our sister companies F3 Logistics, F3 Consulting, and F3 Patriot, combines operational and acquisition expertise to solve daily complex issues between the warfighter and support activities. We have provided various services to include Professional Engineering, Knowledge Management, Virtual Reality Training, Energy Management, Maintenance, Construction Management, Program Management, and Logistics as described in our Company Experience.

## COMPANY CAPABILITIES

**F3 Solutions** was recently awarded a Prime contract by the Robins Air Force (RAFB) as a SBIR Phase III follow-on to the SBIR Phase II Virtual Reality Paint Trainer (VRPT). Under this contract we provide training integration support and two (2) instructors to perform on-site training for the VRPT at RAFB. F3 will integrate existing training material provided by the government with the VRPT. This material includes power point, hard copy and videos that are currently being utilized.

**F3 Solutions** was recently awarded a Prime contract by the Hill Air Force Base (HAFB) to develop and deploy a customized Virtual Reality Paint Trainer (VRPT) to include F-16 aircraft and peripherals. Just like the VRPT at RAFB, this solution teaches correct/safe painting based on USAF Corrosion Prevention/Control and Coating Application/Removal requirements and simulates appropriate paint settings, gun adjustments (fan pattern, PSI, etc.), and free movement within the virtual hangar. It also integrates a Learning Management System (LMS) that records all activity/data to support better training.

**F3 Logistics** was awarded a Prime contract by the USAF at Robins Air Force Base (RAFB) to provide Third Party Equipment Purchasing (3PEP) services. During this 10-year contract, we will provide sourcing, procurement, and logistics services to the US Air Force to:

- Improve Warfighter support
- Maintain or lower the total cost to the Government
- Ensure the continued utilization/increase of small business manufacturers

- Maintain clear Government visibility into the program.

**F3 Solutions** was awarded a Prime contract by the Defense Logistics Agency (DLA) at Robins Air Force Base (RAFB) to perform repairs and/or replacement of various commercial rolling doors/frames, accessories with or without motors, doors around the installation, ensuring all doors are inspected and fully functional.

**F3 Solutions** was awarded a Prime contract by the US Air Force to design, develop, and install a 2-Component/ Plural Component High Flow Paint Dispense System (PCPDS) for 1) MIL-PRF-85285 topcoat and 2) MIL-PRF-23377 or MIL-PRF-32239 primer. This system will be installed at Robins Air Force Base and will also develop and provide virtual reality training on system safety and usage to base personnel.

**F3 Solutions** was subcontracted to develop and deploy a Pressure Gauge VR Trainer (PGT) at the Warner Robins Air Logistics Complex at Robins Air Force Base (RAFB). This solution provides pressure gauge calibration training in a safe efficient virtual environment. The PGT incorporates a built-in Learning Management System (LMS) and provides exercises on calibration fundamentals for multiple pressure gauges and multiple testers.

**F3 Solutions** was awarded a Prime contract by the US Navy to remove and dispose of Navigation, Seamanship, and Shiphandling Trainer (NSST) from Mayport, FL. We will conduct an onsite survey of equipment/inventory and perform pre-disposal meetings. We will coordinate with the respective Government representatives regarding planned disposal efforts and interfaced with the local Defense Reutilization and Marketing Office (DRMO) to identify and comply with local base policies and procedures and provide methodologies for potential disposal/recycling and/or identify equipment to be accepted to DRMO.

**F3 Solutions** recently performed Relocation of six (6) 12-ton Computer Numerical Controlled (CNC) machines between buildings at Eglin Air Force Base (EAFB). Our dedication team used machine toe jacks and a crane truck to safely transport each machine to their proper location(s) and without incident.

**F3 Solutions** provides Emergency and Preventative Maintenance under a BPA at Moody AFB. We support varying equipment to include HVAC, Sanding Booths, Paint Booths, Blast Rooms, Breathing Air Compressors, Wash Wracks and a Curing Oven.

**F3 Solutions** was awarded Phase I SBIR contract to discern the issues affecting the Robins Air Force Base (RAFB) Plating Shop and yield a plan to develop training that would alleviate said issues. The expected results of the Phase I will ensure the accurate Phase II development of an AR/VR trainer solution to properly educate Plating Shop personnel. This trainer will allow plating operators to be in the presence of a life-like, full-scale chemical plating facility as a safe, non-toxic virtual experience. It will allow users to experience individual as well as team-based tasks and the virtual plating facility will house the required support systems such as protective personal equipment, fire extinguishers, etc.

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**F3 Solutions** provides Scheduled Preventive Maintenance (PM) and on call Unscheduled Remedial Maintenance (RM) for Automated Storage and Retrieval System Equipment (22 units total) at Robins AFB. These systems include Kardex retrievers, Modula Vertical Lift Modules, and a Gorbelt OverHead Bridge Crane.

**F3 Logistics** won the Multiple Award Contract for Kits, Recovery, Augmentation, Components, and Engines (KRACEn) in support of the Naval Air Systems Command (NAVAIR).

**F3 Solutions** was awarded a Direct to Phase II SBIR contract to design, develop, and deploy a Virtual Reality Painter Trainer (VRPT) at RAFB. With the support of our subcontractor, ViziTech USA, we have successfully deployed a robust The Virtual Reality Paint Trainer (VRPT) that renders realistic paint panels, aircraft, peripherals, and environments with interactive support systems and safety equipment. The VRPT teaches correct/safe painting based on USAF Corrosion Prevention/Control and Coating Application/Removal requirements and simulates appropriate paint settings, gun adjustments (fan pattern, PSI, etc.), and free movement within the virtual hangar. It also integrates a Learning Management System (LMS) that records all activity/data to support better training.

**F3 Solutions** provides services for the Vapor Degreaser System Cleaning contract to perform cleanings and acid neutralization of the vapor degreaser system in the Advanced Metal Finishing Facility (AMFF) located in building 20128 for the 402d Commodities Maintenance Group (CMXG) at RAFB.

**F3 Solutions** won the Automated De-paint System Maintenance contract to provide preventive maintenance, support, and on-site repair for an Automated De-paint System for the 402nd Commodities Maintenance Group at RAFB.

**F3 Solutions** performed Industrial Process Waste Cleaning (IPW) to the Warner Robins Air Logistics Complex (WR-ALC) at Robins Air Force Base. Under this contract we provided qualified personnel and project and environmental consulting services to perform (Level B & C) hazardous and non-hazardous equipment and equipment facility cleaning. This contract was integral to the functioning of RAFB, as it ensured the base was not overburdened by industrial process waste which could yield a work stoppage for whole parts of the installation. In providing these services, we performed pollution prevention and recycling and the environmental management of hazardous material, hazardous waste, solid waste, air quality.

**F3 Solutions provided engineering support** to the Air Force Life Cycle Management Center C-5 Galaxy System Program Office (SPO), (AFLCMC/WLS), providing sustainment support for the operation and maintenance of the C-5 aircraft. The C-5 engineering and maintenance community required a secure, end-to-end, real-time, visual and voice collaboration between engineering staff and field organizations. The previous collaboration process relied heavily on electronic mail, teleconferences and Temporary Duty (TDY) travel. The C-5 SPO developed the Joint Engineering Disposition Infrastructure (JEDI) system (Fixed and Mobile) decreasing the response time of the Form 107 process, as well as providing significant reduction in TDY travel for engineers. The system also maximized aircraft availability (at the time, a record high for the C-5) and minimized un-planned expenditures due to aircraft downtime (at the time, \$80K/day). The JEDI system allowed geographically separated field maintenance personnel to capture and stream live video depicting real-time maintenance issues for analysis and disposition to weapon system engineers located at separate operating locations.

**F3 Solutions provided WR-ALC a support service study** to satisfy overall depot operation objectives and fully reenergize the commitment to continuous process improvement (CPI). The primary objective was to reutilize, reconstitute and reuse Depot Maintenance Activity Group (DMAG) funded scrap metal material. With regards to the manufacturing metal material waste generated by WR-ALC, senior leadership at the base was concerned with how to save money and manpower. F3's study provided management the ways and means: (1) to reduce cost in waste volume, (2) decrease waste disposal cost and liability by recycling and reuse, (3) reduce downtime and improve productivity and (4) improve quality and reduce cost to base manufacturers.

**F3 Solutions was also subcontracted to perform** three Task Orders in support of the Air Logistics Complex (ALC) at Robins AFB, GA. In response to Task Order one, F3 Solutions provided advanced logistical support services to include manufacturing supply and materials, engineering evaluation, concept development, test/evaluation, vendor supply and cost for back shop manufacturing and aircraft depot level maintenance. Specific Taskings included an evaluation of current base manufacturing and maintenance processes and a business case analysis of recommended options including Return-On-Investment (ROI) to be utilized as a bench study to other ALCs. As part of our tasking, we interfaced with existing legacy systems to develop product listings of materials and vendors within the Supply Chain Management (SCM) process supporting WR-ALC's aircraft depot maintenance. The final report from our study provided the government specific actions required to implement the changes to their logistics processes and back shop manufacturing material handling procedures as well as assessing material and parts vendors. One of the more critical portions of our study included research of Out of Production items and Obsolescent Parts and the inclusion of a recommended parts replacement listing.

Under Task Order Two, F3 was tasked with the design, development, test and evaluation of ES/AAA prototype spray guns in the F-15, C-5, C-17 and Commodities paint shops and to design and develop a **Plural Component Paint Dispensing System (PCPDS) / Mobile Paint Dispensing System** through a production Demonstration and Validation process. The prototype equipment needed to be specifically designed to meet the PDM flow time requirements of each weapon system and improve the mobile paint process. To overcome any potential parts obsolescence, we selected off the shelf items with long term reliability which we incorporated to the PCPDS technical manual's Illustrated Part Breakdown (IPB) and provisioning list.

In parallel with this project, Task Order Three required F3 Solutions to develop a software program for a hands-on paint certification program for all on-base aircraft painters. The program trains aircraft painters in the proper technique of how to apply paint to the aircraft using the paint gun and adjusting the flow of paint during application. F3 Solutions' virtual paint certification saved the AF time and material which resulted in cost savings during the aircraft PDM cycle.

**F3 Solutions designed, developed and tested a portable explosion-proof light cart** capable of properly lighting the underside of aircraft post depaint and post paint activities. The light cart was specifically designed to meet the flow time requirements of each weapon system and approved by the COTR through a production Demonstrations/Validation.

Existing airframe external surface preparation, prior to coating application, has traditionally incorporated aggressive chemistry and complex equipment that challenges personnel to manage safely and effectively on an ongoing basis. In order to reduce hazardous material usage, increase safety of the work environment and reduce equipment complexity purpose-built, COTS,

preparation equipment are implemented and tested. During the quality control review of paint and repaint activities portable light carts are required to provide proper lighting levels for workers to perform quality control review prior to paint and post paint evaluation. F3 designed, developed, and performed Dem/Val for a portable light cart system that effectively and efficiently provides enough light on the underside of aircraft for workers to perform quality control review prior to paint and post paint evaluation. The demonstration and validation of the processes consisted of interviewing personnel, providing oversight of usage on multiple airframes, and reporting the outcomes with comparison to previous technologies and methodologies.

**Utilizing our GSA Contract**, F3 Solutions was Prime contracted to provide Removal, Disposal, and Recycling services for various Naval installations. We were selected to conduct on-site surveys and collect detailed information for the removal of various trainers and systems at several naval stations in Mayport, San Diego, Norfolk, Dam Neck, and Hawaii. We coordinated with the respective Government representatives regarding planned disposal efforts and interfaced with the local Defense Reutilization and Marketing Office (DRMO) to identify and comply with local base policies and procedures and provide methodologies for potential disposal/recycling and/or identify equipment to be accepted to DRMO. This coordination ensured proper personnel, equipment and materials were onsite prior to trainer/system tear-down, thereby allowing us to complete the jobs in a timely manner.

**F3 Solutions provided engineering security services** to a Fortune 500 Client and furnished all labor and materials necessary to perform a complete the following objectives:

- Developed ISO Standards and Implementation Plan
- Design, develop, and deploy Phase I of a Security Informational Prioritization Solution (SIPS) to increase the efficiency and streamline current notification processes
- Design, develop, and deploy a platform mapping application as part of Phase I of SIPS utilizing COTS products. This map displays the specific location of each FMC Technologies office, including information regarding specific site. This map provides the foundation and/or platform for future data integration to exponentially enhance geospatial relations to current data to leverage investments in various data sources.

We developed a webpage that hyperlinks to their current web page as a one-stop for all information regarding security. Specific Security notifications applicable to geographic are extrapolated and incorporated as an email to each traveler. F3 also provided engineering assistance for the development of a Google Earth® or Google Maps® tool depicting each of the client's office locations that linked with real-time traveler information. The client has office locations in approximately 16 countries with 27 major facilities.

**F3 Solutions joined with our sister company, F3 Logistics**, to form Team F3 and provide Logistics and Supply Chain Management services to a Foreign Military Client. We managed and operated an 85,000 sq. ft. warehouse and an 8000 sq. ft. office space in McDonough, GA. We performed Logistics and Supply Chain Management Services to include receiving, staging, packing, shipping, kitting, warehousing, and obsolescence identification of a daily average of \$60M dollars' worth of Foreign Military F-15S upgrade parts and equipment for the conversion of the existing FMS F15S jets to the new configuration. The warehouse was a multimillion-dollar operation instituted to ensure timely part deliveries to meet the upgrade schedule of the in-country modification contractor. To better streamline the entire process, Team F3 utilized Radio



Frequency Identification (RFID) scanners and developed and deployed an electronic method of viewing and exchanging data and managing records in the areas of vendor order management, asset tracking, and customer master listing management. This method was a database which we labeled Electronic Warehouse Management Inventory Control System (EWMICS). The system provided effective records management by capturing all electronic copies of vendor supplied manuals, CoCs and other associated documents. As part of our contract responsibilities, we were responsible for material requirements identification to include reporting identified obsolescence over the entire period of the contract.

**F3 Solutions joined with an emerging branch of our family, F3 Patriot.** Top management has over 50 years of management, logistics, engineering, and missile system experience, rendering them capable of providing various services to include paint motor repair support and general project consulting.

**F3 Solutions also joined with F3 Logistics and F3 Patriot** to perform work on our awarded Seaport NxG prime contract!

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<b>CORE COMPETENCIES</b>	<b>F3 SOLUTIONS</b>	<b>F3 LOGISTICS</b>	<b>F3 PATRIOT</b>
Engineering Support	<b>NAICS 541330,</b>	<b>NAICS 561210,</b>	<b>NAICS</b>
Information Technology	488190	488190	561210
Knowledge Management	<b>CAGE 5YZG6</b>	<b>CAGE 71ZN2</b>	<b>CAGE</b>
Environmental Consulting	<b>DUNS 962114786</b>	<b>DUNS</b>	7RWB3
Energy Management	<b>GSA GS10F195BA</b>	079252807	<b>DUNS</b>
Operations/Maintenance Mgmt	<b>ISO 9001:2015</b>		080454287
Supply Chain Mgmt Logistics	Certified		

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[www.f3now.com](http://www.f3now.com)