J&F ALLIANCE GROUP

Turning sci-fi into sci-fact

Emerging technology and innovation · Insight minds, foresight solutions

CAPABILITY STATEMENT

CAGE 70FL9 UEI HLKSJZDZ6DS4

Woman-owned · Veteran-owned · 8(a)

2013	7 + 7	SeaPort-NxG
FOUNDED · HQ WILLIAMSBURG, VA	NASA PATENTS · SET-ASIDES	CONTRACT VEHICLE

COMPANY OVERVIEW

J&F Alliance Group develops customizable, device-independent solutions that balance intelligent technology with human ingenuity. We use emerging technologies to enhance training, maintenance, planning, safety and overall readiness for any agency or enterprise. The company builds immersive training systems, AI and machine learning capabilities, and 3D and photogrammetric models for federal, state, local and commercial customers.

CORE COMPETENCIES

- AR, MR and VR development
- Machine learning and AI
- Biofeedback modeling
- Mission planning
- Intelligence analysis
- 3D modeling and animation
- Photogrammetry
- Digital twins and models
- Computer vision
- Drone development
- Safety and maintenance training
- IoT smart applications
- Serious gaming and simulation
- Cloud and databases

DIFFERENTIATORS

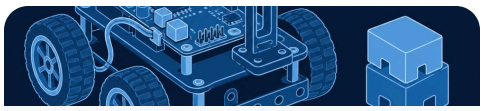
- **Published research foundation.** Peer-reviewed work with sworn police officers, co-authored with a NASA Langley researcher (*Frontiers in Psychology* 11:683, 2020).
- **NASA-licensed technology.** Langley License DN-1358 and seven biometric NASA patents for learning.
- **Seven socioeconomic categories in one vendor.**
- **Own products, not just labor.** ViTAL, Mantis STEM Kits, and a company-owned VR scenario platform.

PRODUCTS AND FACILITIES



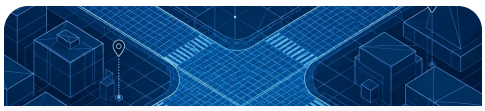
ViTAL

De-escalation and stress-response training pairing VR scenarios with live physiological sensing. Licensed software and SDK, or turnkey.



Mantis STEM Kits

Robotics and coding for K–12: the Scout and Rover kits and MantisCode, with a lesson library and educator training.



VR scenario platform

A company-owned public safety training platform built to U.S. doctrine and state POST standards, with ViTAL sensing native.

PAST PERFORMANCE

Defense Intelligence Agency

Mission planning, situational awareness, photogrammetry and computer vision under subcontract to Zel Technologies.

JSOC via BAE Systems

Modeling and simulation at Ft. Bragg; 1st place, 2017 SOFWERX OpenWERX AR Challenge.

ViTAL with Hampton PD

Biofeedback-driven de-escalation training fielded with sworn officers; published research and continuing field sessions.

Also serving Sheppard AFB · CVN-78 Gerald R. Ford · Naval Medical Center Portsmouth · Huntington Ingalls · Hampton University · DuPont · Emerson · Canon · **Partners** Zel Technologies · FBGC LLC · Peraton · W.M. Jordan · AWS · Microsoft

CERTIFICATIONS

8(a) · SDVOSB · VOSB · EDWOSB · WOSB · VA SWaM · Micro-business

Eligible for set-aside competition, sole source awards and price preferences. CMMC Level 2 in progress.

NAICS CODES

541511 · 541512 · 541330 · 541519 · 541614 · 541690 · 541715 · 513210 · 611420 · 611430

Vehicle: U.S. Navy SeaPort-NxG. ★ 2017 U.S. Minority Technology Firm of the Year.

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