

The background of the slide is a deep space scene. It features a dark blue and black sky filled with numerous stars of varying colors and sizes. A prominent feature is a bright, multi-colored nebula or galaxy structure in the upper left quadrant. On the right side, a large, reddish-brown planet, likely Mars, is partially visible, showing its textured surface and polar ice caps. The overall lighting is soft, highlighting the celestial bodies against the dark void of space.

**NASA/MARSHALL SPACE
FLIGHT CENTER**

JOINT COUNSELING SESSION

September 15, 2020

Background

COMPANY NAME:	X Technologies, Inc.	ADDRESS:	100 Sandau Rd, Suite 300 San Antonio, TX 78216
OWNER:	Jesse Ayala	CONTACT NAME:	Doug Ferrata
EMAIL:	doug.ferrata@x- technologies.com	YEARS IN BUSINESS:	22
CAGE CODE:	1JDN2	DUNS NUMBER:	044271547
WEB SITE:	x-technologies.com	NAICS CODES:	541330

CERTIFICATIONS: CMMI Level 3 Dev, ISO 9001, & AS9100D

Business Size & Classifications

EMPLOYEES (range):	100-500
AVERAGE SALES (range):*	\$16.5-\$30M

CLASSIFICATIONS (select from list below):	Yes/No
SMALL BUSINESS	Yes
SMALL DISADVANTAGED BUSINESS	Yes
NATIVE AMERICAN-OWNED	No
ALASKAN NATIVE CORPORATION	No
WOMEN OWNED	No
ECONOMICALLY DISADVANTAGED WOMEN OWNED	No
VETERAN-OWNED	No
SERVICE DISABLED VETERAN OWNED	No
HUBZONE CERTIFIED	No
8(A) CERTIFIED	No
8(A) EXPIRATION DATE (if applicable)	N/A

*Based around NAICS 541330



Primary Capabilities

- Automatic Test Equipment (ATE)
- Reverse Engineering & Specialized Repair
- Prototyping & Build-to-Print
- Life Cycle Logistics Support Hardware & Software Development
- Information Assurance (IA)
- Identity & Access Management (IdAM)
- Risk Management Framework (RMF)



Current and Recent Contracts/Performance (< 5 years)

- **AF Global Positioning System (GPS)** – Provide all facilities, parts, materials, equipment and services required to inspect and restore to serviceable condition the GPS High Powered Amplifier (HPA)
- **AF TTU-595** – Manufactured and delivered 23 TTU-595 Paveway Laser Guided Bomb (LGB) Test Sets. These test sets provide a simulated target designator and simulate the flight of the bomb from aircraft release to termination at the target. Under contract for 55 additional test sets.
- **Navy Cyber Security** – Provide requirements development, design development, test and technical support for the Cyber security Upgrade on the ETI Data Acquisition Systems (UNIDAQ) and associated Test Program Sets (TPSs).
- **AF Public Key Infrastructure (PKI) & Information Assurance (IA)** – Provides enterprise hardware and software support services to implement and sustain the DoD Class 3 PKI for the Air Force and for the development of responsive cyber acquisition solutions. PKI is a DoD-wide program that provides the critical underpinning to DoD's IA capabilities and includes Class 3 and Tactical implementations on both the Non-secure Internet Protocol (IP) Router Network (NIPRNet) and Secret Internet Protocol Routing Network (SIPRNet). DoD PKI Engineering: Deliver the Department of Defense (DoD) PKI mechanisms for Public Key (PK) certificates that support mission critical DoD applications. Support and operate the DoD PKI Development Lab.



NASA Value – Dynamic System Testing



Problem(s):

- Testing of propulsion of flight control systems requires the concurrent collection of a variety of types of analog and digital data
- This data must be presented to the test operators in real time and allow for impetration of the presented data
- Because of the high cost of the test and the limited number of test articles, the data acquisition system must provide a high reliability
- Failure of the test system could result in damage to the test asset or even result in highly dangerous situations.

Value:

- X Technologies engineers are experienced in development of dynamic test systems
- The eGENT core software can be adapted for other applications and offers the added safety of concurrent processing
- The use of this core software would reduce the cost to develop a dynamic test bench for qualification or production testing for a wide range of sub-systems or components

Company Solution:

- X Technologies' eGENT (enhanced Generation) jet engine test system is a robust, highly scalable, enhanced reliability, adaptable control and data acquisition system for dynamic testing
- The eGNET system has dual redundant controllers running in parallel, should one fail, the other takes control seamlessly
- Critical signals have a secondary measurement subsystem which allow the operator to safely shut down the system in the event of a failure of the measurement subsystem

Status of Solution

- This system is currently in use by the Pakistan Air Force supporting jet engine testing
- The system has been in service at the Pakistan Aeronautical Complex (PAC) since 2016
- This system is easily extended to support other applications requiring the collection and analysis of dynamic parametric sensor data



Awards/Notable Accomplishments

- CMMI- Development Level v1.3 Maturity Level 3
- ISO 9001-2008
- AS9100 registered
- CPARS rating – 10 total, 8 Exceptional, 2 Satisfactory/Very Good
- Maintain DCAA audited rates
- Our Security Program rated outstanding by DSS
- Top Rated AF PKI Defense Enrollment Eligibility Reporting System
/Real-time Automated Personnel Identification System
- Manufacturing for Raytheon 10+ years,
100% rating on time delivery and 100% for quality.
- Perfect rating with DLA

Principle Point(s) of Contact

NAME	TITLE	PHONE	EMAIL
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