

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 atmospheric haze. The overall lighting is soft, highlighting the celestial bodies against the dark void of space.

**NASA/MARSHALL SPACE  
FLIGHT CENTER**

**JOINT COUNSELING SESSION**

**Engenix, Inc.**

**March 2, 2021**

# Background

<b>COMPANY NAME:</b>	Engenix, Inc	<b>ADDRESS:</b>	475 Providence Main St Huntsville, AL 35806
<b>OWNER:</b>	Beth Kramer	<b>CONTACT NAME:</b>	Beth Kramer
<b>EMAIL:</b>	beth.kramer@engenixinc.com	<b>YEARS IN BUSINESS:</b>	2
<b>CAGE CODE:</b>	86H29	<b>DUNS NUMBER:</b>	116588640
<b>WEB SITE:</b>	www.engenixinc.com	<b>NAICS CODES:</b>	541330, 541512, 611430

**CERTIFICATIONS (e.g., ISO 9001, AS 9100, etc.): SBA HUBZone, SBA Woman-Owned Small Business, ISO 9001:2015 processes (certification planned in Q4)**

# Business Size & Classifications

<b>EMPLOYEES (range):</b>	<b>0-10</b>
<b>AVERAGE SALES (range):*</b>	<b>&lt;\$1M</b>

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

\*Based around NAICS 541330





# Primary Capabilities

- Training and Training Systems
  - Tailored training solutions and implementation
- Technology Development
  - GN&C
  - Algorithm Optimization
  - IV&V
- Knowledge Management/Capture
  - Help organizations transition SME/Senior workforce knowledge to junior workforce



# Current and Recent Contracts/Performance ( < 5 years )

<b>Contract</b>	<b>Number</b>	<b>Relevant Information</b>
<b>NASA SBIR Phase I XFORGE GN&amp;C Optimized Algorithm (OPR GSFC)</b>	<b>Prime Contract 80NSSC-20-C-0268</b>	<b>Phase I completed. Phase II Proposal submitted for Optical Distortion Applied to GN&amp;C</b>
<b>AVT-SIM for Bell Textron Training Systems</b>	<b>Subcontract</b>	<b>Requirements Analysis (TSRA) for Future Vertical Lift (FVL) US Army</b>
<b>AVNIK</b>	<b>Subcontract</b>	<b>US Navy Phase I and II SBIR for Embedded Training System</b>
<b>US Army SMDC Patriot Missile Training Support</b>	<b>Subcontract</b>	<b>Training support, design, and development</b>



# NASA Value - Quad Chart



## Problem(s):

- Human Lander System may require GN&C IV&V to verify redundant GN&C computers.

## Company Solution:

- XFORGE can be adapted to spaceflight GN&C algorithms to provided this independent verification
- This solution is under development through the NASA SBIR program
- Phase I research proved a positive solution for XFORGE in several areas of risk averse environments including GN&C for spaceflight vehicles

## Value:

- XFORGE is an economical solution that can provide an accurate timely verification of redundant GN&C computers which will give the program manager an additional risk assessment tool in a vital verification environment.
- XFORGE is an algorithm optimization framework. Our research to date shows several opportunities to tailor our product to solutions on multiple applications

## Status of Solution

- SBIR Phase I was completed at a TRL 4
- Phase II is targeted as a GN&C optical distortion optimization tool but with additional requirements definition and funding can also be developed further as a GN&C tool as described and developed in the Phase I contract



# NASA Value - Quad Chart

## Problem(s):

- MSFC civil service and contractor personnel have evidence of a knowledge gap caused by the aging workforce and impending retirements.

## Company Solution:

- Engenix performs the analysis and designs a solution for any organization with knowledge management/knowledge capture issue
- We digitize technical data and procedures into an organized accessible product
- We design and build training programs to support the workforce when the knowledge gap manifests itself after the experienced workforce has departed

## Value:

- We build agile solutions that can quickly be modified or updated for any customer need
- Integrate training into your product
- Capture data from existing or legacy programs
- Transition data to relevant and useful knowledge and/or training

## Status of Solution:

- A system can be tailored to meet customer and organizational needs
- We assist the organization in creating the optimal transitional workforce model and provide training to sustain it
- Build a tool that will capture data and provide useful information



# NASA Value - Quad Chart

## Problem(s):

- MSFC civil service and contractor personnel always need training
- Training is usually not assessable at the point of need
- Training may not be tailored to individual learners
- Training is often boring and redundant!

## Company Solution:

- Engenix can perform a training analysis and help baseline training across directorates and the entire enterprise
- Agile and iterative training system design and development
- We tailor training to organizations and individuals
- Dedicated to the measurable transfer of skills and knowledge to the individual learner

## Value:

- We build modular solutions that can quickly be modified or updated
- A searchable database of assets
- Can easily integrate or update customer pre-developed training

## Status of Solution:

- Tailored training solutions to meet organizational and individual employee needs
- Develop training and training tools that are useful and integrated into job performance
- Learning is geared to the understanding of technical terms and data
- Capture training analytics that provide useful organizational information



# Principle Point(s) of Contact

<b>NAME</b>	<b>TITLE</b>	<b>PHONE</b>	<b>EMAIL</b>
<b>Beth Kramer</b>	<b>CEO</b>	<b>256-617-6766</b>	<b>beth.kramer@engenicinc.com</b>
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