



# Advanced Biometric Solutions

## CAPABILITIES STATEMENT

DUNS: 808644913 | CAGE: 55R51 | SMALL BUSINESS | HUBZone

### COMPANY OVERVIEW

- » Dedicated small business operating as a government contractor and commercial software developer since 2007.
- » Supporting FBI, DOD, DHS and NASA programs, which allows us to gain vast knowledge and expertise in federal biometric systems and software tools development.
- » Creating fast and reliable products that provide our customers with accurate information to make real-time decisions on the front lines.
- » Developing proven biometric software that easily integrates into government and commercial systems, thus allowing those users to connect seamlessly with the automated biometric identification systems (ABIS) hosted by multiple U.S. agencies.

### CAPABILITIES

- » Agile Software Development
- » Automated Biometric Identification System Development
- » Full System Integration
- » Technical Consulting Services
- » Research and Development

### PRODUCTS



**ANI**, is the most advanced ANSI/NIST-ITL and EBTS Software Development Kit on the market. With its cross platform software library it can read, write, edit and verify ANSI/NIST-ITL formatted transaction files.



**IMAGE**, is an advanced cross platform Java library that enables an application to read, write and edit images in all common biometric image formats. It utilizes highly optimized state-of-the-art algorithms to achieve native code performance without the hassle of using the Java Native Interface.



**WHORL**, is an application used to create, visualize, modify and validate ANSI/NIST-ITL formatted files to comply with specifications.



**SEQUENCE**, contains multiple advanced and state-of-the-art algorithms to accurately detect fingerprint orientation at a full 360-degrees, segment fingerprint images that are captured at extreme angles and accurately detect the fingerprint positions of where they are located within the image.

## PREVIOUS PROJECTS

### FBI Next Generation Identification (NGI)

Lakota has provided software integration support to the NGI program since its inception. We developed key technologies that have drastically improved system performance, stability and accuracy. Other efforts include developing custom software and integrating specialized COTS products to include facial recognition. Additionally, Lakota provided support to the NGI Operations & Maintenance team at FBI CJIS by troubleshooting anomalies and performance related issues, developing software fixes and updates, enhancing the capabilities and performance of the system.

Lakota's unique holistic point of view and forward-thinking has played a critical role in ensuring the successful deployment of NGI increment 2 and increment 3 and continues to play a vital role in the NGI's final increment.

### Department Of Homeland Security (DHS) Homeland Advanced Recognition Technology (HART)

Lakota supports the HART program by providing key members of the scrum team that is implementing various microservices related to biographic data, such as identity and encounter retrieval. We also develop automated regression tests and integrate them into the CI/CD pipeline to quickly identify defects. These efforts will enhance the core application that provides business workflow and business rules management; interfaces to biometric matching services; features an authentication and authorization web service and fully integrates with the DHS enterprise system security.

### DOD ABIS

Lakota designed and implemented an enterprise biometrics system that is the authoritative repository for all services in the DOD. This system enables deployed forces to distinguish between adversaries and innocents and to decide and act based on scientific processing.

### NASA SWAT

Lakota provided subject matter experts to evaluate various Computer-Aided Software Engineering (CASE) tools that provide technical support of internal Government-Off-The Shelf (GOTS) software.

### FBI ITSSS STOR95 Electronic Department Order (EDO)

The entire system was developed using a Scrum Agile methodology where the customer was constantly involved throughout the entire development lifecycle. This application provides a centralized console for the monitoring, execution and management of daily tasks performed by the Criminal History Analysis Team (CHAT), and a public website for customers to submit requests, check the status and retrieve responses. The system also provides a dashboard to help CHAT facilitate these tasks and allows each member of the team to monitor the status of their work environment.

## COMMERCIAL CUSTOMERS

Leidos  
Northrop Grumman  
TMC Technologies  
ManTech  
Booz Allen Hamilton  
Accenture Federal Services

## FEDERAL CUSTOMERS

NASA  
Department of Homeland Security  
Department of Justice  
Department of State  
Federal Bureau of Investigation  
Naval Criminal Investigative Services  
U.S. Immigration and Custom Enforcement

## NAICS

511210, 541511 , 541512, 541513, 541519,  
541690, 541712, 541990

## DUNS

808644913

## EIN

20-3899874

## GSA SCHED

IT SCHED 70 (GS-35F-410BA)

## CLEARANCE

Top Secret Facilities Clearance CAGE:  
55R51

## CERTIFICATIONS

Amazon Web Services (AWS) Preferred  
Partner  
AWS Solutions Architect  
Security +

**Phillip Merritt**  
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