



Between Power and Grace lies Excellence

- ★ Women-Owned Small Business (WOSB)
- ★ Economically Disadvantaged Women-Owned Small Business (EDWOSB)
- ★ Small Disadvantaged Business (SDB)



[dynagrace.com](http://dynagrace.com)

# CAPABILITY STATEMENT

Since 2006, DynaGrace Enterprises has provided technical services, products and integrated solutions to government and commercial customers. Our team has expertise in Image Processing, Artificial Intelligence, Predictive Data Analysis, Industrial Automation, and Cloud-based technologies. Also, we provide Air Monitoring Solutions, Professional Services Staff Augmentation, and Technical Writing.

## CORE COMPETENCIES

- Artificial Intelligence
- Predictive Data Analysis
- Software Development
- Mobile Development
- Image Processing (Object Detection)
- Machine Learning Algorithms
- Information Assurance
- Data Scrubbing & Conversion
- Industrial Automation
- Human Machine Interface (HMI)
- Internet of Things (IoT)
- Cloud-Based Solutions

## TECHNOLOGIES

- C#, C++, Python, R, Xamarin, XAML, PHP, HTML5, Javascript, CSS, XML
- Oracle, SQL Server, PostgreSQL, MySQL
- Mobile OS (Embedded, Android, iOS)
- Cloud Platforms (Azure, AWS, Google)
- Open Automation Software (OAS)



## NAICS

- 518210: Data Processing, Hosting, and Related Services
- 541511: Custom Computer Programming Services
- 541512: Computer Systems Design Services
- 541513: Computer Facilities Management Services
- 541519: Other Computer Related Services
- 541715: Research and Development
- 541990: All Other Professional, Scientific, & Technical
- 561990: All Other Support Services



## CONTACT

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## IT CERTIFICATIONS

CompTIA Security+, A+ | Oracle Certified Professional | CISSP

## CLIENTS



DoD Facility Clearance (Secret) | NIST SP 800-71 Compliant

## **Digital Opacity Compliance System (DOCS II), Virtual Technology, LLC, Rio Rico, AZ**

Virtual Technology LLC contracted with DGE to perform the software and hardware integration portion of DOCS II. A project initiated by DoD, DOCS II detects how thick the smoke is emitting from smokestacks and also dust clouds created from construction and industrial sites. DOCS II is used to measure, monitor and document Visible Emissions utilizing EPA Alternative Method 082, ASTM D7520, EPA Method 9, EPA Method 22 and store images and videos of source for Opacity Determination. Using Artificial Intelligence, DGE developed an algorithm to detect the thickness of the smoke, and DGE utilized the algorithm in the Image Processing portion of DOCS II. The algorithm learned and became more accurate by feeding many image samples into the engine. A RESTful web service accesses the algorithm that both the web and mobile applications utilize on the cloud server. DGE develops all. The mobile app uses the camera, GPS, weather and accelerometer of the devices and is available on both iOS and Android platforms.

## **Network End-To-End Monitoring Operations (NEEMO), NRL, Washington, D.C.**

DGE provided software engineering and architecture, maintenance, and updates for a tool that NRL implemented on all their Navy ships to monitor a large amount of network traffic. NEEMO operates on both Windows and Linux. Software Development of complex C++ source code integrated with a PostgreSQL database to support a large scale, multi-threaded architecture, and inter-process communication to support and record communication between IoT probes, collectors, raw traffic and existing flows. Once data was scrubbed and categorized, predictive data analysis was utilized, algorithms developed, and anomalies reported in NEEMO.

## **Industrial Automation, Various Clients, Utah and California**

Industrial Automation is the use of control systems, such as computers or robots, and information technologies for handling different processes and types of machinery in an industry to replace a human being. DGE uses system design software that integrates with nearly any hardware from any vendor in one environment and helps save development time with convenient features and a consistent programming framework across all hardware. The outputs from different hardware, usually IoT devices, are combined into an easy to use HMI that correlates data to user views to get the most out of statistics generated by raw data from hardware. Acquiring, analyzing, and presenting data in a meaningful and professional manner is the best goal that DGE can achieve to help the user experience. DGE has automated sensors on bridges, waste treatment plants, gun ranges, avocado farms, beer breweries, greenhouses, and natural gas fleets. DGE has developed HMI's on mobile, web and cloud-based solutions.

## **Integrated Missile Database (IMDB), Hill AFB, Utah**

IMDB is a large Oracle database system. DGE does Software Development to engineer and architect programs which are available which allow for the input, validation, and reporting of data. DGE provides Database Administration, System Administration, Configuration Management and Information Assurance Portfolio Management including C&A, Risk Management Framework and EITDR.

## **Engineering, Computer Science, Technical and Configuration Management Services, Hill AFB, UT**

DGE provided the software and hardware engineering services to support the 516th SMXS and the development of the PATS Program. The development activities included the design and delivery of TPS. The TPS is defined as the software and hardware necessary to test a Unit Under Test (UUT) on the host PATS Automatic Test Equipment (ATE). The TPS includes the Interface Test Adapter (ITA) and the ancillary equipment necessary to augment the capability of the PATS ATE Test Station. The software development activities include the establishment of new TPS on the PATS ATE platform. DGE wrote and documented Technical Orders (T.O.) and Computer Aided Drafting (CAD) files.

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