CAPABILITIES STATEMENT

Cape Henry Associates — Preparing Our Armed Forces

Founded in 2004, Cape Henry Associates (CHA) is a Service-Disabled Veteran-Owned Small Business (SDVOSB) specializing in Manpower Analysis, Personnel Analysis, and Training (MPT) services. Cape Henry Associates is a SeaPort-e prime contract vehicle holder and owns a Small Business Innovation Research (SBIR) technology, Lighthouse, for sole source contracting for MPT products and services. We employ a staff of more than 100 people, 65% of whom are veterans. With an overall on-time delivery of 99.5% for required deliverables, we take pride in the reputation we have built as the go-to company for all things MPT.

MISSION READINESS

Analysis

- Front End Analysis (FEA) Development
- High Driver Analysis Development
- Initial Ship/Unit Required Operational Capabilities/Projected Operational Environments (ROC/POE) Development
- Manpower Estimate Report (MER) Development
- Manpower Gap Analysis Development

Requirements

- Billet Training Profiles (BTP) Development
- Human Systems Integration Plans (HSIP) Development
- Manpower Plan Development
- Preliminary Ship/Fleet Manpower Documents (PSMD/PFMD) Development
- Planning, Programming, Budgeting, and Execution System (PPBES) Funding Requirements Input Development

Special Studies

- Billet Saturation Analysis
- Manpower Validation Studies

CURRICULUM & TRAINING

- Navy Training System Plan (NTSP) Development
- Front End Analysis (FEA) Development
- Courseware Development
- Training Device Development
- Training Systems Development
- SMART Classroom Design and Installation
- High Velocity Learning Environment (HVLE) Design and Build
- Self-Assessment and Groom Training (SAGT) Delivery

Cape Henry Associates offers Virtual Reality (VR) and Augmented Reality (AR) solutions through Fog Bank. With multiplatform development capabilities, our agnostic technology solutions are customizable for a wide range of needs. Applications are available for the following industries and more:

- Government
- Financial Services
- Construction and Development
- Education
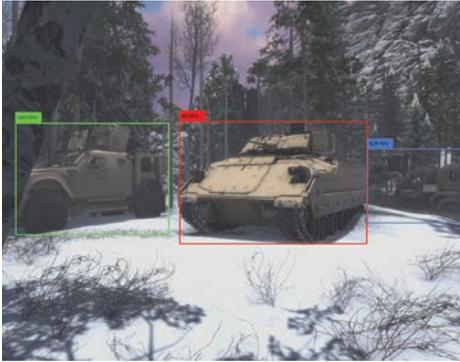- Energy and Utilities

ENGINEERING & LOGISTICS

- Engineering Change Request/Ship Change Document (ECR/SCD) Analysis
- Life Cycle Support Plan (LCSP) Development
- Planned and Corrective Maintenance (PM/CM) Analysis
- Planned Maintenance Systems (PMS) Evaluation and Technical Document Support
- SEAOPS (Safe Engineering and Operations) Manual Development
- Ship/Activity Acquisition and Life Cycle Support
- System Acquisition and Life Cycle Support

CLIENTS INCLUDE:

- U.S. Navy
- U.S. Army
- U.S. Coast Guard
- Defense Intelligence Agency

2021 ACCOMPLISHMENTS

FOGBOXER

Cape Henry Associates (CHA) launched FogBoxer, a Unity plug-in that generates high-volume synthetic images, automated label annotation, and rapid AI prototyping.

Visit **fogboxer.com** for tutorials and a free demo.

CHA I/ITSEC

Cape Henry Associates (CHA) presented a paper at the 2021 Interservice/Industry Training, Simulation, and Education Conference (I/ITSEC) in Orlando, Fla. "Digital Twins to Computer Vision: A Rapid Path to Augmented Reality Object Detection on the Battlefield" reviewed our research and findings on how to improve battlefield situational awareness moving forward.

ISO Recertified QMS

Cape Henry Associates' (CHA) Quality Management System (QMS) was certified in June 2015 by NAVSEA 04RP in accordance with NAVSEA Standard Item 009-04 and the requirements of ISO 9001. In November 2016, CHA's QMS was certified by DEKRA Certification, Inc. to the requirements of ISO 9001:2015. DEKRA Certification, Inc. surveys CHA's QMS annually and each certification is renewed every three (3) years to show continual improvement of CHA's QMS and its processes while maintaining adherence to the standards' requirements.

OUR TOOLS AND PRODUCTS

FOGLIFTER

A stand-alone, scalable, secure, and fully dedicated mobile Artificial Intelligence (AI) framework powered by NVIDIA NGC capable of:

- Rapid ingestion of a wide variety of data
- User-configurable filtration of AI Interesting Artifacts (AI/IA)
- User free-form investigation of AI/IA
- ML experimentation and training
- Flexible visualization

FOG BANK
RESEARCH & DISRUPTION BY CAPE HENRY ASSOCIATES

CHA's Fog Bank division is the force behind our innovative training and simulation services, bringing exciting new disruptive progress to our clients and the marketplace.

LIGHTHOUSE
A CAPE HENRY ASSOCIATES PRODUCT

Lighthouse is designed to capture and integrate diverse datasets and provide analysis in one extraordinary, digital warehouse. Whatever a customer's data or analytic needs may be, Lighthouse gives almost instantaneous service.

FOG BOXER

A Unity plug-in that provides:

- High-volume synthetic image generation
- Automated label annotation
- Rapid AI prototyping

Bill Allen, President and Founder

Bill has been leading and managing Cape Henry Associates (CHA) since its founding in early 2004. After a 22-year commitment to the U.S. Navy where he advanced from enlisted machinist mate to a commissioned limited duty engineering officer and unrestricted line lieutenant commander, Bill worked for a major defense contractor in Washington, D.C. leading up to his founding of CHA. His bachelor's degree in Sociology and his master's in International Relations complement his technical experience in direct strategic benefit to the growth and success of CHA.

John Jackson, Chief Executive Officer

As Chief Executive Officer, John's responsibilities include strategic and organizational planning, finance, and change management. He joined CHA as a Program Director and quickly transitioned into the role of Chief Operating Officer and then Chief Executive Officer. Twelve years of service in the U.S. Navy and a master's degree in Business Administration and Technology Management along with several previously held civilian leadership positions combine to make John tremendously skilled and competent to lead CHA now and into the future.

Curtis Sumner, Chief Operations Officer

After retiring with 21 years of service in the U.S. Navy, Curtis spent some time with SPAWAR and NETC programs before joining CHA. He held the roles of Senior Program Manager and Director of Operations before becoming Chief Operations Officer. Curtis oversees daily operations and strategic planning and management, and manages contract technical and financial aspects along with supervising the Project Management Office. His more than 20 years of military curriculum development experience combined with more than a decade of business development experience and a bachelor's in Business Administration have prepared him well for his leadership responsibilities with CHA.

Rachel Allen, Chief Administrative Officer

Rachel's varied experience with CHA combined with her bachelor's degree in Liberal Studies positions her uniquely for the role of Chief Administrative Officer. She oversees human resources, contract administration, purchasing, travel, export compliance, and facilities security and interfaces with the accounting department and banking and insurance companies.

Ed Myers, Chief Compliance Officer

Ed Myers is a Service-Disabled Veteran of the U.S. Navy. In addition to being CHA's Chief Compliance Officer, he is a Certified Risk and Compliance Management Professional (CRCMP), and Certified Manager of Quality/Organizational Excellence (CMQ/OE). During his time with the Navy, Ed qualified as a nuclear-trained Engineering Officer of the Watch (EOOW) on USS Nimitz- and USS California-class ships. He served as the Senior Enlisted Advisor to the Supreme Allied Commander, Atlantic; served five Command Master Chief (CMC) tours; and was a two-time semifinalist for Master Chief Petty Officer of the Navy (MCPON) and finalist for Fleet Master Chief Europe (FLTCM). Ed has a bachelor's in Interdenominational Studies and a master's in Organizational Management.

Jay McGovern, Operations Director

Jay McGovern served as director of CHA's Project Management Office before transitioning to his current role of Operations Director. His responsibilities include directing and overseeing operations staff to ensure they are motivated and trained to carry out their responsibilities, developing and controlling operational budgets, and directing and controlling production. Jay oversees the development of all necessary policies and procedures to ensure safe and healthy working environments across all company locations and consistent fulfillment of business objectives. He evaluates overall operations performance by gathering, analyzing, and interpreting data and metrics. He works to define long-term operations strategic goals, builds key customer relationships, identifies business opportunities, negotiates and closes business deals, and maintains extensive knowledge of current market conditions to facilitate marketing position improvement and financial growth. Jay holds bachelor's degrees in Business Administration and Computer Information Systems and a master's in Business Administration.

Jackson Wages, Information Technology Director

Jackson Wages joined CHA as Information Technology (IT) Manager, and then assumed the role of Information Technology Director. Jackson started his technology career working as evening director for WJHG-TV in Panama City, Fla. He has a pilot's license and was a flight instructor for seven years. As CHA's IT Director, Jackson installs and configures our network equipment, conducts routine maintenance on servers, assists in web development projects, sets up our user accounts and computers, and provides our employees with desktop support. Jackson was vital to keeping CHA on the road to success by ensuring all employees had the ability to work from home during the COVID-19 pandemic. Jackson set up the remote configuration quickly and efficiently so CHA could remain open for business and continue to provide our customers with outstanding products on schedule.

Kara Weaver, Quality Assurance Director

Kara Weaver joined CHA as a Human Systems Integration Analyst in Training Gap Analysis. She moved on to become a Quality Assurance Technician and then Quality Assurance Manager, and is now CHA's Quality Assurance Director. Her responsibilities include overseeing daily Quality Assurance operations, setting and maintaining internal policy that aligns with our Quality Management System, and management of internal and external audits. Kara spent eight years in the U.S. Navy as a Boatswain's Mate and then as an LCAC Loadmaster. Kara holds a bachelor's degree in Justice Administration.

Nosika Fisher, Research and Development (R&D) Director

Nosika Fisher joined CHA as a Systems Engineer before transitioning to her current role of Research and Development (R&D) Director. Nosika oversees R&D initiatives into emerging technologies including efforts involving artificial intelligence, machine learning, virtual reality, augmented reality, and CHA's Platform-as-a-Service training technology. With a bachelor's degree in Computer Science, Nosika started her career as a web developer and was rapidly promoted into various leadership roles involving technology, product development, and marketing. Her previous work experience at companies ranging from startups to large corporations in both civilian and government industries empowers her to effectively lead CHA R&D. Nosika is a master at translating strategic challenges into technology solutions. In fact, she masters translating just about anything. A native of Albania, she is fluent in five spoken languages and a myriad of programming languages.