



SERVICES AVAILABLE

• Volume Calculations

Quickly calculate the volume of a stockpile or area from the surrounding ground or a reference height.

• Surface Comparison

Compare differences between surfaces over time.

• Site Monitoring

Multiple flights allows comparison of calculated scheduled work against actual work completed

• Project Website

Each dedicated project website allows you to easily view and work with data. Allows efficient sharing of data between management and teams.

Improve Workflow with Aerial Photogrammetry

Drones have become a proven, useful tool for the construction industry. Drones are capable of collecting data faster and more frequently than manned flights, and survey crews. Drones also improve safety on your project by keeping your personnel out of dangerous situations.

Information collected from drones is able to be turned into 3D models, topographical maps, and volumetric measurements.

The information collected allows companies to more efficiently deploy resources around a project, recognize potential issues, trim costs, and limit delays.

3 Wire Engineering's FAA certified pilots can provide accurate and reliable information to you in a safer, faster, and less expensive manner than traditional methods.

Who We Are

In 2015, we began improving processes within the construction industry. This introduction to the construction industry gave us a critical eye for evaluating and improving efficiency in project processes. While successful, we began to see that there was more that could be accomplished. 3 Wire Engineering began when we saw the advantages that could be gained through the integration of unmanned aerial systems to construction practices.

As former Naval Flight Officers, we understand the advantage of seeing things from a different point of view. We also understand the importance of timely and accurate information. Our backgrounds in autonomous robotics and Geographic Information Systems combined with experience in Lean/Six Sigma have allowed us to provide services that can be effective across the construction and mining industries.

Our services and products are not a replacement for traditional practices. Rather, they are a tool to augment Surveyors and Project Managers. Utilizing drones allows us to quickly and accurately gather information that could take surveyors days, or weeks to collect. This frees up surveyors to be at other projects doing tasks drones cannot. This benefits projects by reducing time waiting on survey teams that are stretched thin, while also providing Project Managers with timely information. Rapid turnaround of information allows Project Managers to create haul plans, compare actual vs projected work completed, monitor third-party material deliveries, and even overlay CAD drawings to spot potential conflicts (minimizing rework).

Finally, as a Disabled Veteran Owned Small Business, you can trust that we will provide our services with the utmost quality and integrity.

Our Officers:

Cheryl is a retired Naval Officer. She spent 21 years serving in various roles in the U.S. Navy. She began her career as an enlisted Sailor serving both stateside and overseas. After being selected for the Enlisted Commissioning Program, she attended the University of Texas (Austin), where she received a B.S. in Communications as well as a commission as an Ensign and selected as a Naval Flight Officer. After flight school graduation, she flew the E-2C Hawkeye on stateside and combat deployments. She was then chosen to be a flight school instructor, where she instructed both in the aircraft as well as in the classroom. She was also responsible for managing the students in the command. After her time flying, she completed her final tour in the Navy while being stationed in Japan where she managed and scheduled training for thousands of Sailors.

Brandon is a former Naval Officer. He graduated from the United States Naval Academy with a B.S. in Control Systems Engineering, specializing in Autonomous Robotics and Astronautics. Brandon has also earned an M.S. in Aeronautics from Embry Riddle Aeronautical University. Upon graduation from the U.S. Naval Academy, Brandon was commissioned as an Ensign and selected as a Naval Flight Officer. After graduating flight school, he was selected to fly the E-2C Hawkeye where he completed over 50 combat missions. After his initial tour, he was selected to teach Aerodynamics at the Navy's flight school. His follow-on assignments included Operational Planner, and Operational Test Director (Command, Control, Communications, Computers Division). After leaving the military, Brandon became a Process Engineer for a heavy civil engineering company. His process improvements realized over \$1.25 million per year in operating cost reduction.