



raSmith

CREATIVITY BEYOND ENGINEERING

Land Surveying Services

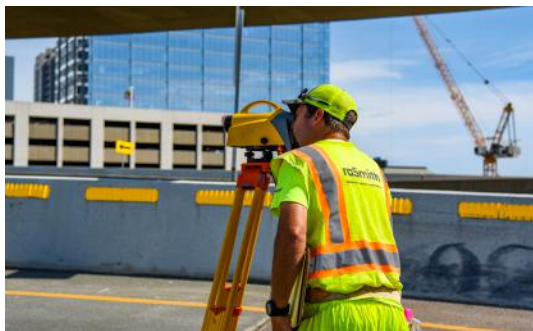


Who We Are

raSmith is a nationwide, multi-disciplinary consulting firm comprised of civil engineers, structural engineers, traffic engineers, land surveyors, development managers, landscape architects, ecologists, and construction services professionals.

Client Focused

At raSmith, we focus on the unique needs of each client and provide a customized approach to projects. As trusted advisors, we partner with clients and stakeholders to understand their needs, uncover the best solutions, and deliver quality and responsiveness.



Land Surveying Services

raSmith's Survey Services Division combines decades of experience and deep industry knowledge to deliver accurate, high-quality, reliable survey results for developers, contractors, architects, attorneys, and real estate professionals across Wisconsin. By leveraging cutting-edge technology and innovative processes, we set the standard for excellence in the industry.

Our in-house team of over 30 professionals consists of licensed land surveyors, 3D modeling specialists, FAA-certified UAS pilots, and project managers. We've completed hundreds of thousands of surveys for clients in real estate development, law, and government with services delivered from offices in Wisconsin, Illinois, and California by licensed professionals.

Services Offered

Property and Boundary Surveying

- ALTA/NSPS Land Title Surveys
- Boundary Surveys
- Certified Survey Maps (CSMs)
- Condominium Plats
- Plats of Survey
- Remonumentation Surveys
- Legal Descriptions

Construction and Development Surveying

- Construction Staking
- Structure and Building Layout
- Right-of-Way Plats
- Subdivision Plats
- TIF, Zoning, and Annexation Support
- Easement Exhibits

Geospatial and Mapping Surveying

- Topographic Surveys
- Static LiDAR (3D Laser Scanning)
- UAS Mapping
- UAS Imagery
- Control Surveying for Aerial and LiDAR Mapping
- Volumetric Surveys
- Monitoring/Deformation Surveys
- Hydrographic Surveys
- Facility Record Drawings
- Historic, Adaptive Reuse Surveys
- LOMA, LOMR, and Elevation Certificates



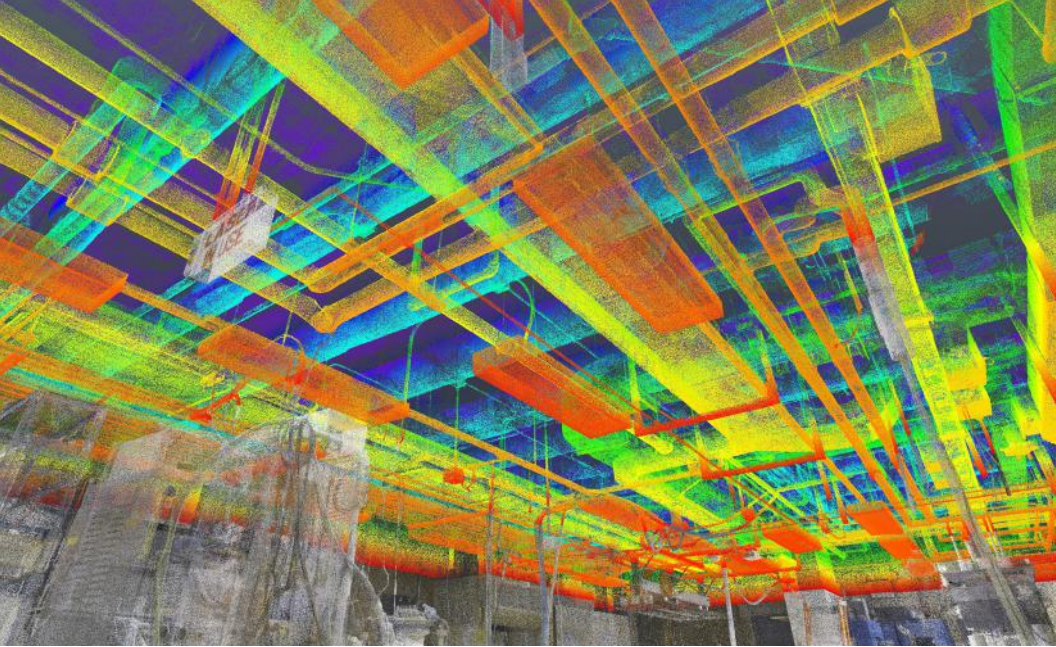
Hydrographic Surveying

As part of our advanced survey technology services, raSmith offers hydrographic surveying, enabling us to study the underwater depth of ponds, lakes, rivers, and streams. Our survey staff utilizes our hydrone (remote control survey boat) to collect data underwater. The hydrone is equipped with a multibeam echo sounder — a sonar system that emits sound waves that bounce off the bottom of a water body and are returned to a receiver, enabling the user to determine water depth. The ability to complete hydrographic surveys is another step forward for raSmith in providing advanced survey technology services as well as enhancing our watershed planning, design, and construction services.



Land Surveying

raSmith has a heritage in land surveying; an extensive library of survey records; and strong GPS, LiDAR, and UAS capabilities as early adopters of advanced survey technologies. Our land surveying operations serve the needs of real estate development professionals, the legal community, and state and local government. Dating to 1929, raSmith has completed more than 500,000 surveys for a broad range of projects. Our staff is licensed throughout the U.S. Our professional land surveyors are also supported by a team of in-house FAA-certified UAS pilots and some of the most experienced LiDAR (3D laser scanning) professionals in Wisconsin.



LiDAR (3D Laser Scanning)

raSmith uses LiDAR to help clients best understand the as-built environment. As early adopters of LiDAR, our staff uses this powerful technology for an array of projects involving both sites and buildings, interiors and exteriors. Since 2007 we have worked on scanning projects across the U.S. Importantly, all of our expertise is in-house.

raSmith's LiDAR services reach beyond because of our ability to couple conventional survey control with our scanning efforts to help ensure a high level of accuracy. Our staff's ability to match client needs with the correct survey tool is based on our extensive use of LiDAR technology, commitment to sound survey principles, and survey experience dating to 1929. Our focus on accuracy and ability to think outside the box assures our clients that we will deliver the best solution.



UAS Mapping

raSmith's FAA-certified UAS pilots use drones carrying both survey-grade LiDAR and photogrammetric payloads to capture point cloud data and imagery. We use survey-grade ground control points and conventional check shots to quantify the accuracy of our data sets. From there, we create a variety of deliverables including 3D point clouds (LiDAR data) and orthorectified imagery. We then extract general planimetric, topographic features, and surfaces in support of and combined with other survey-based deliverables including topographic maps, ALTA/NSPS Land Title Surveys, and Certified Survey Maps.

Advantages of UAS Mapping include enhanced data collection, ability to better map areas that may otherwise be difficult or unsafe to traverse, and in certain instances, a more timely means of collecting data versus traditional conventional methods. In addition to other tools in our advanced survey technology tool belt, UAS-borne survey-grade sensors are deployed regularly by raSmith's survey teams on projects that can specifically benefit from their use.



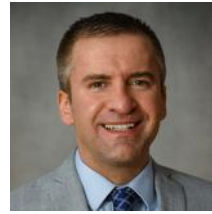
raSmith Surveying Contacts



Eric Sturm, P.L.S.

Director of Survey Services

(262) 317-3237 | eric.sturm@rasmith.com



Shane Zodrow, P.L.S., P.E.

Assistant Director of Survey Services

(262) 317-3390 | shane.zodrow@rasmith.com



David Yurk, P.L.S.

Senior Project Manager - Appleton, WI

(920) 843-5736 | david.yurk@rasmith.com



Eric Lindaas, P.L.S.

Senior Project Manager - Madison, WI

(608) 421-5311 | eric.lindaas@rasmith.com

Requests for project quotes can be sent via email or by visiting

www.rasmith.com/land-surveying/.



raSmith

CREATIVITY BEYOND ENGINEERING



raSmith.com