SWE Solutions



One Sentence: Drone-powered reality capture, 3D modeling, and immersive project visualization.
Location: Naperville, IL 60563
Founded: 2021

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Founders First CDC INNOVATION EMPOWERS SMALL BUSINESS EXPANSION

Overview

SWE Solutions is advancing construction and infrastructure project delivery through the use of drone technology, reality capture, 3D modeling, and digital visualization. By providing accurate site intelligence and immersive project representations, SWE helps clients improve safety, efficiency, cost control, and decision-making across both existing facilities and large-scale capital improvement projects.

Competitive Advantage/Solution: Combines engineering expertise with drone-based reality capture and visualization technologies. Improves safety, reduces field time, enhances accuracy, and supports more efficient project delivery.

Products/Technology: UAV (drone) services and photogrammetry. 3D modeling, digital twins, immersive visualizations, and project animations.

Milestones/Major Achievements:

- American Council of Engineering Companies (ACEC) Illinois Small Firm of the Year (2025)
- Selected by Illinois Department of Transportation (IDOT) for Drone Pilot Project and assisted with publishing IDOT UAS Memorandum

Financing

Seeking $1M in equity financing

Problem

The engineering and surveying industry faces a critical labor shortage as fewer professionals enter the workforce while infrastructure rehabilitation and construction demands continue to grow. SWE Solutions leverages drones, reality capture, and digital modeling technologies to make surveying and infrastructure workflows safer, faster, and more cost-effective, delivering equal or greater accuracy than traditional methods while helping organizations do more with limited resources.

Team

Stephanie Wong, PE (Co-Founder)
David Wilkinson, PE (Co-Founder)