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Quidient Scene Reconstruction Engines are designed to reconstruct complex Scenes like those pictured above.

## Company Profile

**Quidient, LLC** is a 3D imaging technology firm serving government (B2G) and business (B2B) customers. It's world class team includes scientists and entrepreneurs that have developed some of the most useful 3D imaging systems in the world. Quidient's flagship products are Scene Reconstruction Engines (SREs), which are key components of devices, processes and systems that use SREs. Most of the scenes that people occupy during the course of their daily personal and professional lives are quotidian scenes. Quotidian scenes are everyday scenes that frequently include materials that cannot be reconstructed by other technologies (e.g., shiny, transmissive, finely structured and featureless surfaces). Our remarkably power-efficient technology relieves a severe cost/performance bottleneck that prevents current SREs from reconstructing these complex, everyday scenes.

## Value Proposition

- No currently available SRE technology can accurately and effectively reconstruct quotidian scenes like those shown above. Thus, limiting the numerous potential applications requiring robust scene reconstruction.
- Quidient's SREs overcome these limitations in an affordable, miniaturized package by combining three separate, but complementary technologies: Light Field Physics, Plenoptic Octrees and Machine Learning.

**NAICS:** 541511 – Custom Computer Programming Services  
541330 – Engineering Services

**DUNS:** 079693340 | **CAGE:** 7N7H3

## Differentiators

Quidient's SREs are designed to be an integrable component of camera hardware and software. This integration will enable and enhance new capabilities to include robust and incredibly accurate 3D scene reconstruction. To accomplish this, our technology maps the scene's light field, utilizing polarimetry and incorporates a specialized database-like data processing approach. This approach, similar to an internet search engine, allows the engine to process the immense amount of 3D data involved in scene reconstruction. As a result, we're able to reconstruct scenes of nearly unlimited detail in a cost-effective manner.

### Core Competencies

- 3D Scene Reconstruction
- Processing Scenes of nearly Unlimited Detail (SUDs)
- Polarimetry
- Light-Field Physics
- Machine Learning
- Plenoptic Octrees
- SLAM, SfM

### Applications

- Situational Awareness
- Modeling and Simulation
- Maintenance
- Inspection
- Training
- Triage / Medical
- Foreign Object Debris (FOD)
- Additional applications requiring robust scene reconstruction

### Past Performance

- Developing devices, processes and systems using scene reconstruction (generally under NDA) with global government and commercial entities
- Raised \$3 million to start company
- Top Startup in MD in 2017

### Reference Videos

- ▶ DSR Story Video
- ▶ Hail Damage Assessment
- ▶ Photogrammetry Fail Video
- ▶ Shiny Toy Boat Reconstruction

### QUIDIENT

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### Other Resources

- 📄 Scene Reconstruction White Paper
- 📄 Current & Future Applications
- 📄 2017 Top Startup in MD
- 📄 About Us