

3D Computer Vision Engineer/Scientist

Keywords: 3D scene reconstruction, structure from motion (SfM), simultaneous localization and mapping (SLAM), optical flow, inverse light transport, nonlinear optimization, bundle adjustment.

Overview

Quidient seeks a skilled computer engineer/scientist with strong 3D scene reconstruction experience to join our growing company. You will be able to design, implement and test Quidient Reality™ scene reconstruction engine algorithms and data structures in C++. You will be a quick thinker with great coding/debugging skills, excellent time-management skills, and strong collaborative skills. Title, compensation (including equity), and relocation expense reimbursement will be commensurate with experience.

Requirements:

- Bachelor's degree or higher in Computer Science, Electrical Engineering, or equivalent.
- Proven ability to design, implement and test sophisticated SLAM, SfM, and related scene reconstruction algorithms and data structures in C++.
- 5+ years of experience developing production code on a high-performance team.
- Deep understanding of 3D scene reconstruction including nonlinear optimization.
- Deep understanding of multithreaded object-oriented code design, implementation, and testing using C++ in the Microsoft Visual Studio development environment.
- Brilliant thinker who can contribute both "inside and outside the box."
- U.S. citizen or permanent resident. Highly qualified H-1B visa holders will be considered.
- Live near, or be willing to relocate to, our tech center in Columbia, MD. Highly qualified candidates currently living in or moving to remote situations will be considered.

Preferences

- History of successful delivery of products.
- History of successful leadership of technical teams.
- Record of success in 3D technology companies, including startups.
- Familiarity with Windows, iOS, and Android operating systems; Python (NumPy/SciPy), Ceres.
- Familiarity with hardware design (FPGA programming using VHDL, Verilog or other RTL).

About Quidient

Quidient (www.quidient.com) is a 3D imaging technology company with a tech center located in Columbia, MD. We are scientists, engineers, and entrepreneurs who have built some of the most advanced 3D imaging systems in the world. Our mission is to become the world's preferred supplier of scene reconstruction and processing engines for digital devices like smartphones and AR glasses. Our Engines record 3D geometry, materiality, and 2D light flowing in generalized scenes and will enable thousands of applications that will transform the way we live and work. We are partnering with some of the top organizations on the planet. Our culture is open, honest, supportive, decentralized, multicultural, and high-performance.



If you are interested in a career with Quidient and feel qualified for the position described, please send your resume in confidence to brandon.turley@quidient.com or scott.ackerson@quidient.com (CEO) Quidient is an equal opportunity employer. Direct applications only.