

George Stetten, Professor

The Robotics Institute and Department of Biomedical Engineering, Carnegie Mellon University
M.D., 1991, SUNY Health Sciences Center; Ph.D., 1999, University of North Carolina



Dr. Stetten's current research interests include image-guided surgery, having developed a device called the Sonic Flashlight, which uses a half-silvered mirror to superimpose ultrasound image in-situ within the patient in real time. His research continues with various adaptations of the underlying principle of in-situ image guidance, including an optical coherence tomography system for guidance of eye surgery, and a video enabled ultrasound scanner for merging internal and external data from the patient. He has invented a new surgical tool that magnifies the sense of touch to enable the surgeon to feel forces during delicate procedures. In addition, Dr. Stetten develops image analysis techniques for automated identification and measurement of anatomical structures. Professor Stetten is a Fellow of the American Institute for Medical and Biological Engineering.

