

Image-Guided Neurosurgery Masters Thesis

System Prototype developed for MIT graduate thesis sponsors
Massachusetts General Hospital and Radionics, Inc.

- Independently formulated and funded master's thesis at MIT.
 - Chased lead from human factors lab to MGH surgeon who posed a problem statement.
 - Created in-lab initial prototype, and secured funding.
 - Completed pre-planning and camera tracking system.
- Thesis



MIT Human Factors Lab (Professor Tom Sheridan): Initial Prototype.



System Complete: OpenGL (Linux) pre-planning MIR/CT image extraction. Image-to-space registration. Real-time video overlay