

# Automated RGBD to C-arm Calibration

Group 6: Dan Adler, Tiffany Chung

Dr. Nassir Navab, Bernhard Fuerst, Sing Chun Lee, Javad Fotouhi

## Goals

To automate the manual calibration that registers a Cone Beam Computer Tomography (CBCT) scanner and Red-Green-Blue Depth Camera (RGBD)

## Significance

Give surgeons a live mixed-reality visualization to place objects during surgery and increase patient safety

## Results

Built automated algorithm with GUI that replicated manual error

Investigated a new phantom that reduces the time of the automated algorithm

