



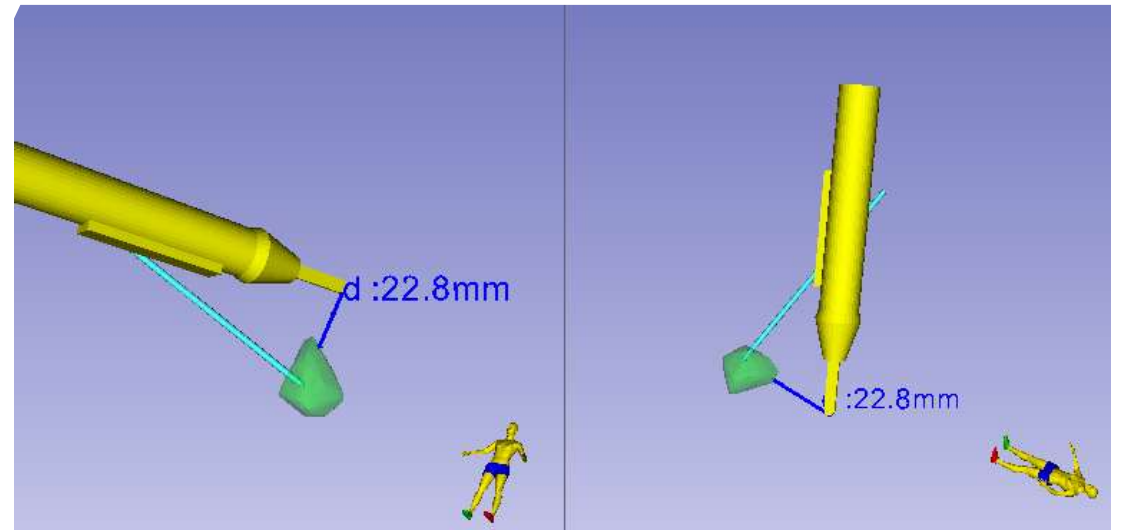
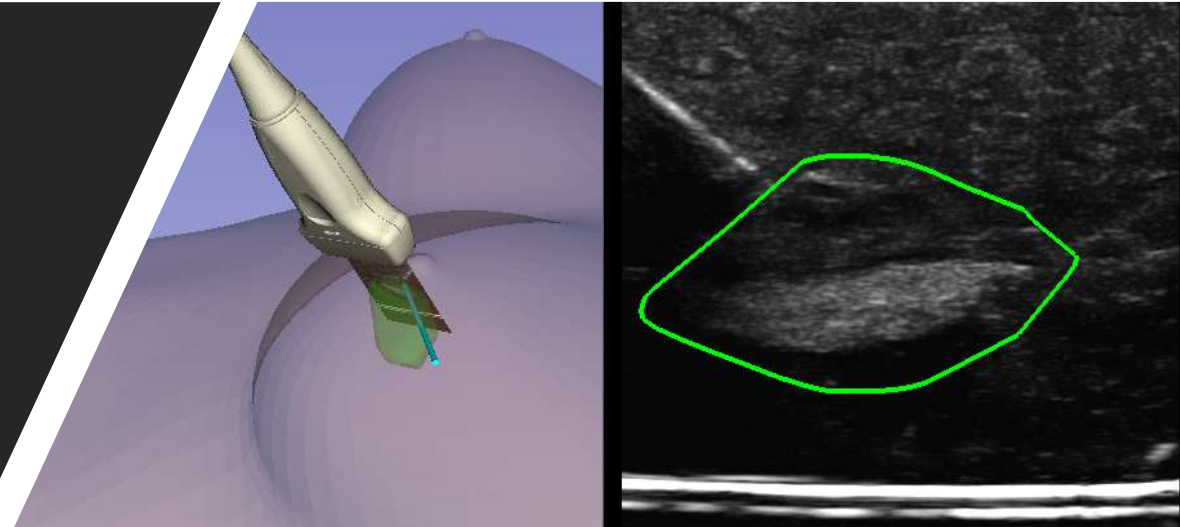
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- Senior Research Engineer (software & systems),
- Associate Director (Engineering) of
- Percutaneous Surgery Lab (PekLab), Queen's University, Kingston, ON, Canada
 - Translational research: lab -> operating room
 - Minimally invasive
 - Image (and other sensors) guided



Current activities

- Focus: develop and maintain reusable software components, ready for clinical use (robust and easy-to use)
- 3D Slicer core: segmentations, segment editor, tables, transforms visualization, slice/3D views, screen capture, crop volume, Windows-specific infrastructure, core library fixes (CTK, VTK, ITK, ...)
- 3D Slicer extensions: SlicerIGT, SlicerRT, SlicerHeart, Sequences, MatlabBridge
- PLUS toolkit: real-time interface to surgical navigation systems (BrainLab, Medtronic StealthStation), tracking systems (optical, electromagnetic), imaging devices (ultrasound, cameras, etc), other sensors



Plans

- Improve our tools:
 - Augmented reality – Microsoft HoloLens
 - Inexpensive surface scanning & marker tracking – Intel RealSense
 - Ultrasound
- Successful clinical translation of our tools (Plus, SlicerIGT, ...): more patients, more procedure, more institutions, ...

