

Group 15: DaVinci-Assisted Continuum Robot Navigation and Manipulation

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Goals:

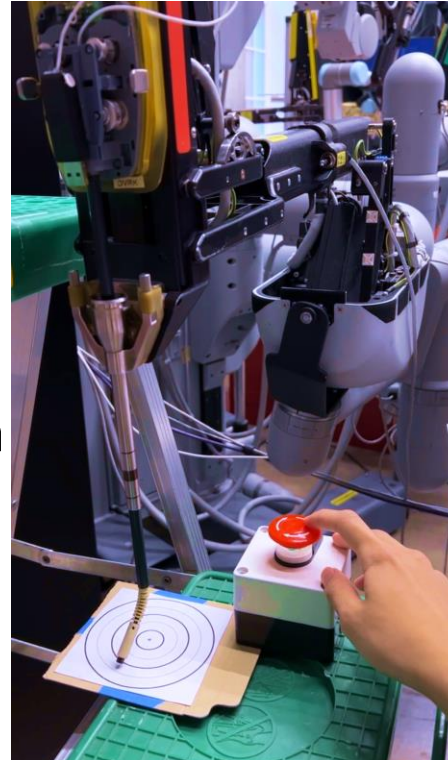
- Build a continuum robot navigation and manipulation system with tendon-driven continuum robot end

Significance:

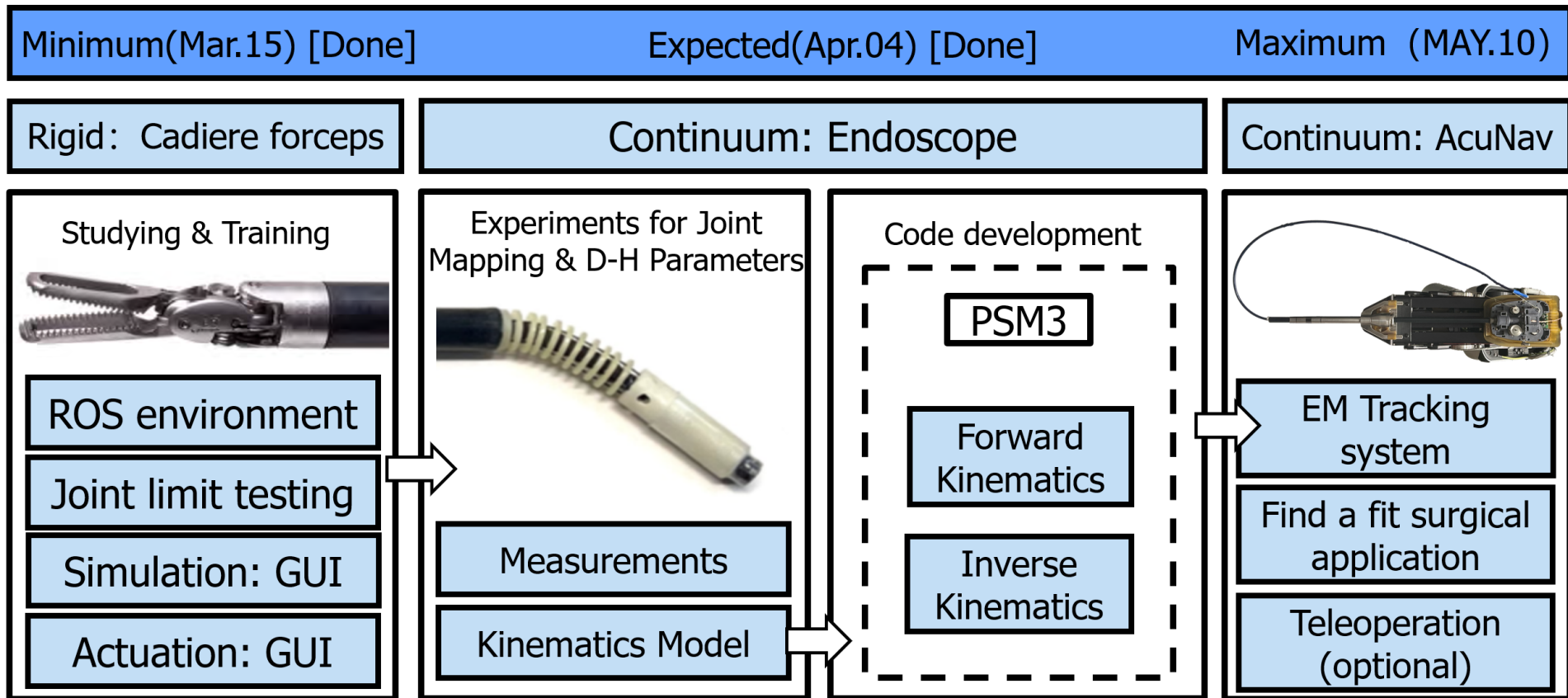
- Improve the reachability and dexterity of the DaVinci robot arm

Results:

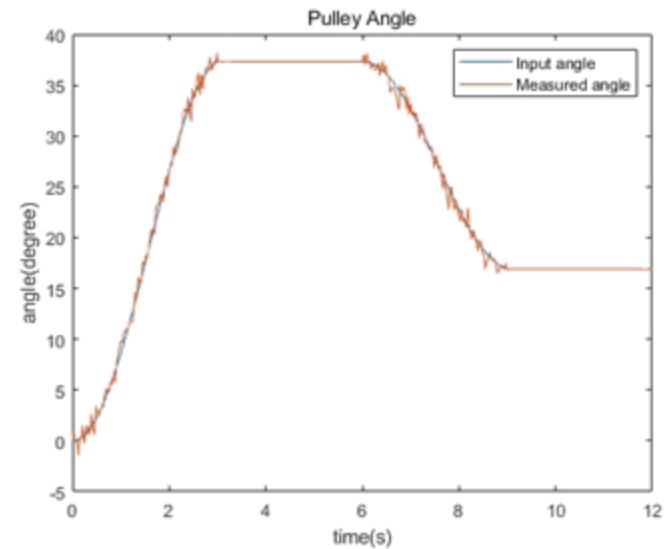
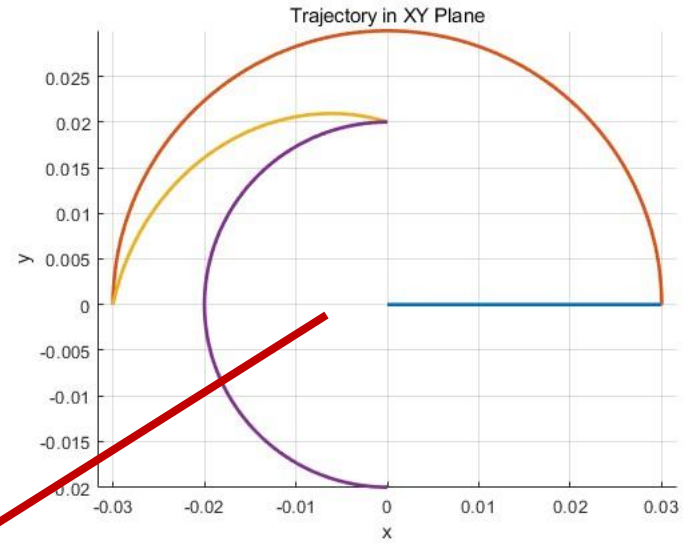
- Prototyped dVRK-catheter
- Navigation and manipulation of continuum robot end on dVRK



Current Approach



Demo



Open-loop dVRK assisted actuation of tendon driven continuum robot