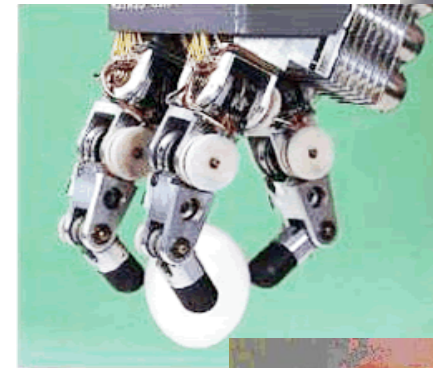
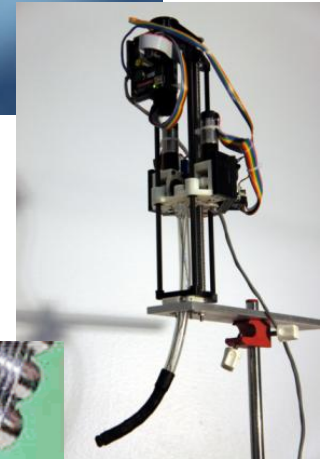




US Army Medical Research & Materiel Command Telemedicine & Advanced Technology Research Center

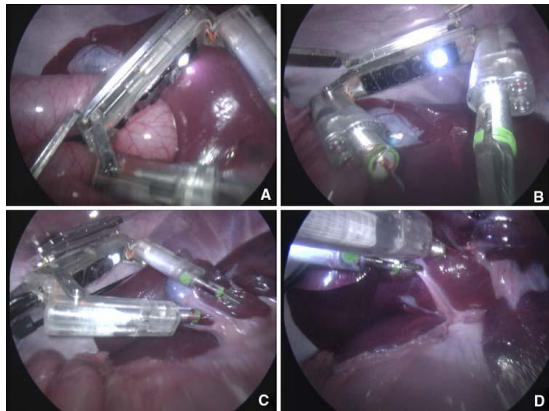


- ***Advancing Natural Orifice Transluminal Endoscopic Surgery (NOTES)***
 - Robotic System for Natural Orifice Transluminal Endoscopic Surgery A09-T029
- ***Autonomous Airway Intubation***
 - Autonomous Airway Management A08-172
- ***End Effectors for Surgical Robotics***
 - Multisensory/Multimodal Interfaces for Robotic Surgery A09-T028
 - Actively Compliant Parallel End-Effector Mechanism for Medical Interventions OSD09-H09
- ***Ultrasound Probes (Imaging Portfolio)***
 - Application of Finger-Mounted Ultrasound Array Probes A09-102

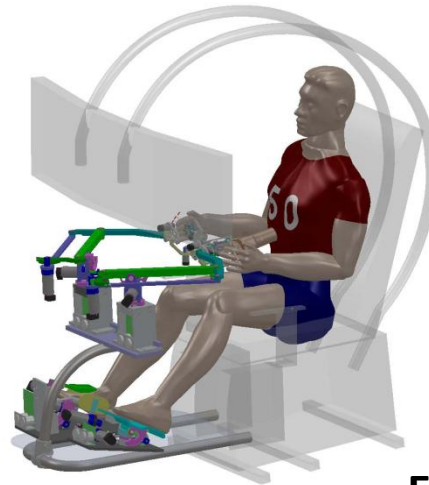
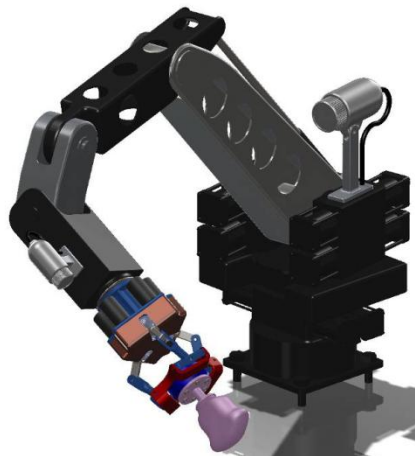




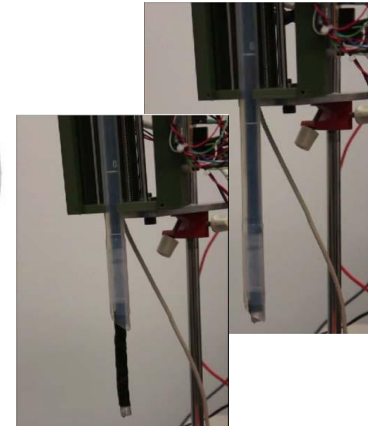
Surgery & Simulation Projects leveraging Robotics Enabling Technologies



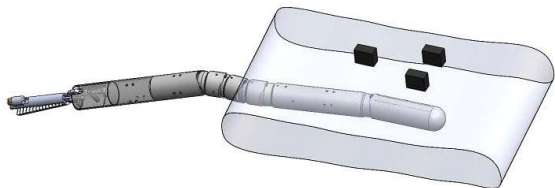
Univ. of Nebraska Medical Center Infocitex Corp



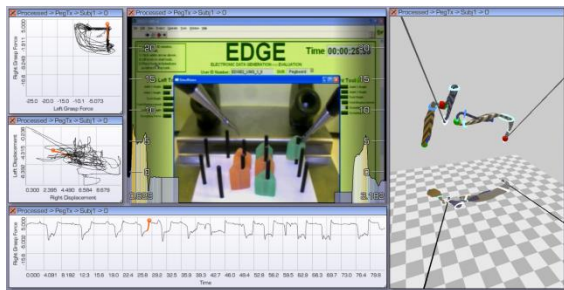
SPI Surgical INC



Energid Technologies



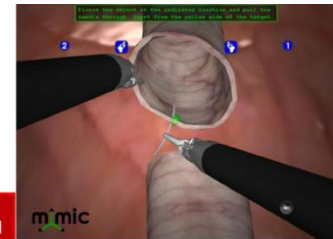
American GNC Corporation



University of Washington



Intelligent Automation, Inc



Florida Univ. / Nicholson Center



Robotics and Unmanned Systems for Medical Missions (1)

- *Battlefield Extraction Assist Robot (BEAR)*
- *Combat Robotic Nurse Assistant*
- *Standoff Remote Triage Sensor Array for Robotic Casualty Extraction System*
- *Advanced Actuators*





Robotics and Unmanned Systems for Medical Missions (2)

- *Terrain Dependent Driving Control*
- *Medical Operations in CBRNE Contaminated Environments*
- *Combat Medic Unmanned Aircraft System*
- *Multi-Mission UGV/UAS*

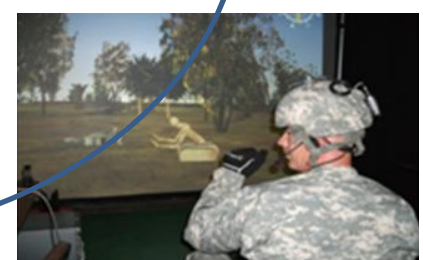


1st Mockup Assembly





Collaboration with Labs to leverage **Convergence** of Enabling Technologies



Neural Control

UMS CASEVAC

Robot-Human
Casualty Interface

LEGS

TRAUMA POD II

Physical
Augmentation
&
Rehabilitation

Modeling &
Simulation

