Hstar Technologies

interactive robotics + medical systems

Capability Statement

Mission:

Create and deploy intelligent mobile robotic assistants that enhance healthcare, safety, and human productivity

Core Competencies:

We provides overall:

- Actuator technology with multi-level safety systems;
- High performance adaptive compliant actuator for safe, efficient mobile dexterous manipulation;
- Heavy payload bi-manual actuation;
- Dexterous manipulation and high mobility robotic system;
- Haptics feedback (human-like sensing of force, weight and balance);
- Ergonomic telepresence operation development;
- Human – robot interface and interaction;
- Sensory Perception for manipulation, navigation, and surveillance;
- Versatile and flexible holonomic robotic mobile platform;
- Autonomous & intelligent navigation control of robot platform;
- Software and medical systems integration;

NAICS:

524114	Medical service plans without providing health care services
541330	Engineering Services
	Mechanical / Industrial engineering services
541512	Office automation computer systems integration design services
541712	Physical science research and development laboratories or services
	Engineering research and development laboratories or service

Hstar Technologies Co.:

Website:	www.HstarTech.com
DUNS:	807676395
Address:	625 Mount Auburn St Cambridge, MA 02138
POC:	John Hu, PhD, President / CEO
Email:	jjh@hstartech.com
Tel:	617-229-5748
Alt POC:	Yi-Je Lim, PhD, COO
Email:	ylim@hstartech.com
Tel:	617-229-5748

Past Performance/Experience:

Our employees have experience working for the following projects;

- Advanced Medical Robotic System (U.S. Army)
- An Integrated Rehabilitation Robotic System (U.S. Army)
- Robotic Noninvasive Neck/ Spinal Injury Assessment Devices (U.S. Army)
- A Smart Affective VE Rehabilitation System for TBI (U.S. Army)
- Dexterous Manipulation for Non-Line-of-Sight Articulated Manipulators (U.S. Army)
- Multi-purpose CODEC with Telesurgery Capability
- An Advanced Intelligent Robotic Pallet System for Cargo-Handling and Aircraft-Loading Efficiency (U.S. Air Force)
- High-Strength Dexterous Bi-manual mobile Manipulator system (U.S. Army)
- Rehabilitative Technologies that Monitor Metabolic Demands of Prosthetics (U.S. Army)
- Robotic Avatar Interactive Console (U.S. Army)
- Regional anesthesia simulator (U.S. Army)
- Untethered haptics-optional surgical training system (U.S. Army)
- Telerobotic Surgical System (U.S. Army)