



Tele-Welding

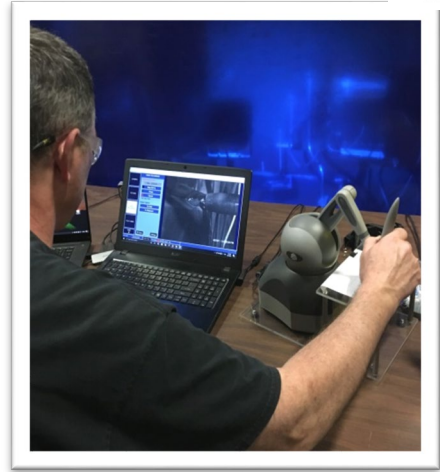
Leveraging Skilled Welders Through Remote-Access Operation

Team: EWI | RTT | HII- NNS | GDEB | Visible Welding



Project Objectives

- Develop a system that allows workers to operate welding equipment from a remote location yet be in complete control of the equipment.
- Create a method for shipyard welders to gain exposure and confidence, and guide future efforts in remote-controlled manufacturing technologies.
- Allow anyone, anywhere to be active participants in manufacturing.



Project Success

- Developed tele-welding technology that allows an operator to view a livestream of a remote welding process they are 100% controlling using a local desktop stylus device.
- Developed two tele-welding systems that allow workers to operate remote welding equipment, while using their own dexterity and decision making to perform GMAW welding.
- Engaged shipyard partners for assistance, feedback, testing, review and critique during development of the tele-welding technology.
- Demonstrated tele-welding at both partner shipyards, allowing many welders and shipyard personnel to experience tele-presence welding.

