Hacking the Human Element Hackathon

1-3 December 2017

SOFWERX in collaboration with MD5, hosted a 3-day hackathon event, "Hacking the Human Element," at the SOFWERX Underground facility in Tampa, FL. Over 50 participants from industry, DoD, and academia were in attedance. The event focused on wearable technologies to enhance operator performance in austere environmental conditions.

The event began with an exposition featuring companies where they showcased wearable medical technologies created to benefit human performance and the SOF operator.

Applictations explored in the event include remote triage, medical monitoring, human performance metric collection, reliable data analysis, data management, data visualization,

Event Outcomes

• Over the course of 48 hours, 8 teams worked together to build prototypes for presented medical technology problems. The four winning teams received a prize and follow on mentoring.

• The winning teams presented the following: blood diagnostics integrated into IV needle, actuated bands built into an undergarment to stop bleeding at extremities, automated on demand triage system from the battlefield and beyond, free-space optical communication using functional fabrics to augment RF radios.