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RE2, Inc. Awarded U.S. Army Phase II SBIR Program to Develop a High-Speed Inspection Robot with Manipulator Arm

Program utilizes RE2's extensive unmanned systems, modular manipulation, and Joint Architecture for Unmanned Systems (JAUS) expertise

PITTSBURGH, PA – October 22, 2007 **–** RE2, Inc., a leading provider of intelligent modular manipulation systems and JAUS software solutions, announced today that it has been awarded a Phase II Small Business Innovation Research (SBIR) program by the U.S. Army to further develop a small, high-speed, highly-maneuverable unmanned ground vehicle (UGV) with a manipulator arm. Existing small UGV platforms range from fast reconnaissance vehicles with simple payloads to slower EOD vehicles with limited mobility and complex manipulators. The goal of the High Speed Inspection Robot (HSIR) program is to bridge the gap between the two by developing a fast, agile UGV with a manipulator arm.

PHASE I

Prior to winning the Phase II award, RE2 participated in an initial six-month Phase I of the project. RE2 accomplished the following during Phase I:

- Developed the initial design for the vehicle and manipulator;
- Modeled the system to demonstrate the potential performance specifications;
- Provided documentation of design tradeoffs and feasibility analysis.

RE2's extensive experience with JAUS, including its robust RE2 JAUS Software Development Kit (SDK), was also critical to this program. The Company's in-depth knowledge of the JAUS standard provided a framework for creating an interoperable system.

"We are pleased to have this opportunity to work with the Army to develop a best-of-breed robotic vehicle with high speed control, a modular manipulator, and improved mobility," stated Jorgen Pedersen, president and chief executive officer of RE2, Inc. "The Phase II award of the HSIR program further validates our leadership and expertise in the areas of unmanned systems and intelligent modular manipulation technologies."

PHASE II

During the 18-month Phase II SBIR, RE2 will develop and demonstrate a small high-speed inspection robot with a manipulator arm. The specifics of the Phase II program include:

- Create a prototype of the HSIR platform;
- Integrate the HSIR with a JAUS-based Operator Control Unit (OCU);
- Integrate a plug-n-play manipulator arm;
- Test the HSIR with soldier operators in outdoor environments.

Pedersen continued, "In addition to the creation of new technology, this $730,000 award will enable RE2 to create new jobs and further establish Southwestern Pennsylvania as a key region and supplier of unmanned systems technology for the Department of Defense."

"This award builds on RE2's reputation as a leading developer of intelligent manipulation systems," remarked Bill Thomasmeyer, president of the National Center for Defense Robotics and executive vice president of The Technology Collaborative. "Their success is further evidence of Southwestern Pennsylvania's growing leadership in defense robotics."

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About RE2, Inc.

RE2, Inc. is a leading developer of intelligent modular manipulation systems and JAUS software solutions. The Company's manipulation systems utilize the RE2 JAUS Software Development Kit to ensure interoperability with fielded robotic platforms. RE2's customers include the Army, Navy, government labs, universities, and defense prime contractors. RE2's expertise lends itself to several markets, including defense, law-enforcement, homeland security, and explosive ordnance disposal. To learn more about the RE2 JAUS SDK, visit www.resquared.com/JAUS-SDK.html. For more information, please visit www.resquared.com or call (412) 681-6382.

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