Austin Robot Technology/The University of Texas at Austin

Team Fact Sheet

Members Alberto Alonso, Vehicle Controls

Patrick Beeson, Graduate Research Assistant

Jon Brogdon, Actuator Controls

Arturo Martin-de-Nicolas, President

Jorge Martin-de-Nicolas, Alternate Team Leader

Juan Martin-de-Nicolas, Mechanical Systems, Vehicle Integration

Donald W. McCauley, Vision System & Logic Design **Jack O'Quin,** Operating Systems and Realtime Processing

Professor Peter Stone, Artificial Intelligence, UT Department of Computer Sciences

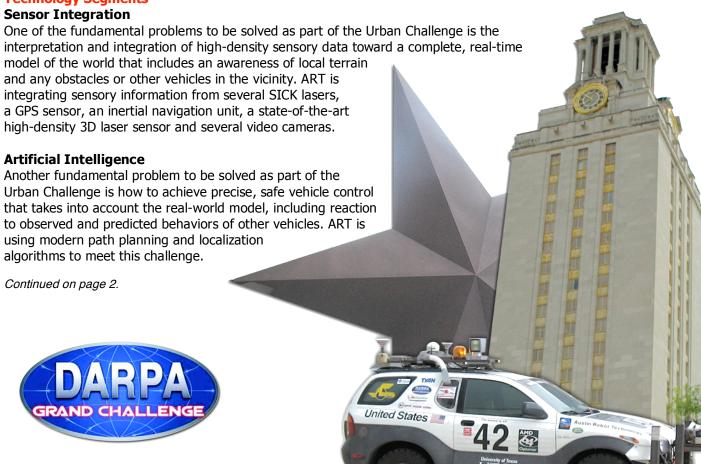
Stephen Straus, Fund raising, Development Committee Chair **David Tuttle,** Team Leader, Program Management, Advisor

Laura P. Wright, BlabberMouth Public Relations (laura@blabbermouthpr.com)

Summary

Austin Robot Technology/UT-Austin's self-driving SUV has proven its ability to make intelligent decisions in simulated traffic conditions. The team is a semifinalist in the internationally renowned DARPA Urban Challenge, which will take place at the former George Air Force Base in Victorville, California on November 3, 2007.

Technology Segments



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Machine Learning

Vehicles participating in the Urban Challenge will be faced with many unpredictable environmental scenarios. Conservative use of machine learning algorithms, including for sensor calibration and integration, will increase the car's robustness to uncertainty.

Business Segments

Defense Industry

The Defense Advanced Research Projects Agency (DARPA) is the central research and development organization for the Department of Defense. The DARPA Urban Challenge will be a field test intended to accelerate research and development in autonomous ground vehicles that will help save American lives on the battlefield.

Software Development

ART's innovations in the areas of graphic chip and digital sensor development will allow those industries to offer improved microcontrollers, 3D room mapping, tracking sensors and computer graphics.

Automotive Industry and Automotive Electronics Manufacturing

ART's autonomous vehicle incorporates technologies that could allow the automotive industry to develop valuable systems for use in everyday vehicles, allowing for such options as auto-drive controls and sensors that improve safety by making corrections based on environmental factors, e.g. slowing vehicle when road is wet.

Vision Industry

ART's innovative vision system running on graphics processing units could lead to technologies such as mobile vision headsets that could allow the visually impaired to "see."

About Austin Robot Technology

Austin Robot Technology is a team of engineers preparing their autonomous SUV to compete in the DARPA Urban Challenge, an internationally renowned competition for robotic vehicles that will take place at the former George Air Force Base in Victorville, California on November 3, 2007. ART will compete in the National Qualifying Event on October 26 – 31, which also will be held at the military training facility.

ART's elite team of technologists offers the only Texas entry with a vehicle that successfully participated in the 2005 DARPA Grand Challenge. ART is currently seeking additional sponsors for its DARPA entry. For more information about this outstanding opportunity, please visit www.austinrobot.com or contact Dave Tuttle at 512-796-9771 or info@austinrobot.com. For information on the DARPA Urban Challenge, visit https://www.darpa.mil/GrandChallenge/index.asp.

The University of Texas at Austin

ART's partner, The University of Texas at Austin, is dedicated to improving the quality of life for the people of Texas, the nation and the world. In education and research, its depth and diversity are unmatched by most public universities. As an enduring symbol of the spirit of Texas, the university promotes economic activity and social progress and is a leading center of knowledge and creativity.

ART's Isuzu VehiCross SUV, dubbed "Marvin," was the subject of a course in the department of Computer Science at UT-Austin. This course provided unmatched hands-on experience with autonomous vehicle technology, and those students continue to work with the vehicle as it prepares for the DARPA competition.