

Interested in joining our team? We are always looking for the best and brightest.

Please email join@autonvs.com about your background, and mention how many hours you will be available per week for this historic project. The development is being performed throughout Southern California, including the Orange County and San Diego regions.

Become a Sponsor

Interested in contributing to this historic effort? Email us at join@autonvs.com. Every contribution will make a huge difference in this pursuit.

Financial and material contributions are what will make this vehicle a success. Significant contributors get listed on our Sponsors page, logo placement on the vehicle, as well as mention in press releases and media coverage.

Contact Information

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www.autonvs.com



Join the Autonomous Vehicle Systems Team

Steer Vehicle with Autonomous System

Length (in) 184.5
<200.0

Width (in) 88.5
88.5

Height (in) 77.0
<100.0

Ground Clearance (in) 15
15

Turning Radius (in) 285
285

Turning Depth (in) 30
30

Autonomy Range (miles/hour) 72/25
72/25

Terrain Capability (Maximum Slope %)

Weight (lb) 5200
<5000

Dimensions 150
N/A

Electrical 24V, 60 amp
24V, 300 amp

Fuel Capacity (gallons) 25
40

www.autonvs.com

DARPA CHALLENGE 2005

Based in Southern California, Autonomous Vehicle Systems has a growing team of more than 30 highly skilled individuals, drawing talent from companies around the world including Northrop Grumman and Rand McNally.

Autonomous Vehicle Systems has partnered with internationally distinguished scientists to develop a visual processing system that is magnitudes faster than existing technology. The primary development effort is focused on refining this technical breakthrough in real-time sensor processing.

Our sponsors help bring life-saving technologies to reality.

SBS Technologies (www.sbs.com) is providing high-performance multi-processor computing hardware built to survive tough environmental conditions, representing the ideal architecture for future autonomous military vehicles.



Project Background

In 1919 Raymond Orteig offered a prize of \$25,000 for the first nonstop aircraft flight across the Atlantic. In May 1927, a virtually unknown airmail pilot named Charles Lindbergh came out of nowhere and won the prize, marking the beginning of modern aviation.



Charles Lindbergh

\$25,000 winner for crossing the atlantic non-stop in 1927

80 years later, another prize has yet to be claimed. This time, DARPA is offering a \$2 million prize for the first unmanned vehicle that can traverse 175 miles of off-road terrain. Former employees from Ryan Aircraft, the same company that built Lindbergh's plane, the Spirit of St. Louis, have teamed with international experts to bring the Autonomous Vehicle Systems HMMWV, Scorpion, across the Mojave Desert.

Autonomous Vehicle Systems prepares for a history-making event to accelerate the development of driverless vehicles.

The DARPA Grand Challenge, scheduled for October 8, 2005, is designed to promote the invention of revolutionary technologies for autonomous vehicles. Utilizing completely self-contained navigation and sensing of the environment, these vehicles will someday save lives on the battlefield.

With a congressional mandate to have one-third of the US Armed Forces ground vehicles be unmanned by 2015, Autonomous Vehicle Systems plans to be at the forefront of developing the technologies that allow this mandate to be realized.

Scorpion is based on a 1987 USMC HMMWV. This platform has been the workhorse for the US Armed Forces for many years. By adapting an autonomous system to this demonstration vehicle, we plan to develop a cost effective approach to enhance existing military vehicles.

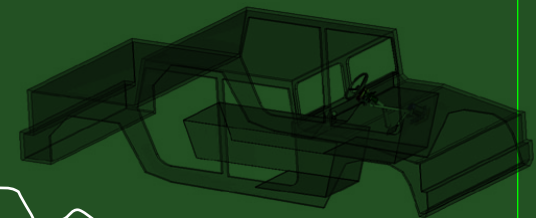
The products we develop have a professional product fit for immediate use by the military, with attention to quality, detail, and ease of use.



DARPA CHALLENGE 2005



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CONSTRUCTION BEGINS ON THE SCORPION HMMWV