

MacroUSA ElRob 2012

Team Information

Picture of vehicles:



Beetle Nano-UGV

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Armadillo M-UGV and Controller

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Scorpion S-UGV

Name of vehicles: Beetle, Armadillo and Scorpion

Picture of team leader:



Name of team leader: Cino Robin Castelli

Team Name: MacroUSA

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Team Information

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Team Description:

MacroUSA CORP.

Macro USA is a Non Traditional, Small Disadvantaged, Minority and Veteran Owned Business based in McClellan Air Force Base in the USA. MacroUSA was incorporated in 2008 by a team of professionals with over 10 years of experience in the UGV market (the technical team has been developing military UGVs since 1999).

During 2009 MacroUSA signed a multimillion dollar contract for the delivery of approximately 5000 Armadillo/Tactical Throw Camera integrated systems.

MacroUSA was also selected for the AEWE Army Expeditionary Warrior Experiment managed by the Maneuver Battle Lab (MBL) at Fort Benning, Ga., in coordination with TRADOC Army Capabilities Integration Center (ARCIC), conducts experiments through live force-on-force and constructive, virtual-land simulations. AEWE provides a

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repeatable, credible, validated venue for network-enabled small unit experimentation focused on emerging technologies and concepts in a live field environment providing operational insights across the DOD supporting AEWE Campaign Objectives and Tactics, Techniques and Procedures (TTP) for the current and future force. Our technology has been selected for integration and will run the experiment in January and February 2010.

MacroUSA has teamed with Northrop Grumman Remotec and is currently designing the mobility section of the new EOD platform for the US DoD (AEODRS, Advanced EOD Robotic System), the AEODRS platform is a JAUS compatible, modular, open architecture system that is scheduled to replace all the existing legacy small UGVs in service with the US DoD in the 2012-2014 timeframe.

In 2011 MacroUSA was awarded an initial contract in response to a JUONS (Joint Urgent Operational Needs) from JIEDDO (Joint Improvised Explosive Device Defeat Organization) to provide the US Army with an over 100 UGVs for immediate use in theatre. The follow up for the program is between 3000 and 4000 systems.

Macro USA is a member in good standing of the Robotics Technology Consortium and is working on development programs for Unmanned Ground Vehicles for the US DoD within the RPP-12 framework.

Besides SUGVs, Macro USA also offers short range throw cameras, gun cameras, portable surveillance cameras, and pole cameras.

MacroUSA's product offerings include:

- Beetle → throw-able, ultra-lightweight (4 lbs.) robotic platform that can be used for surveillance and observation.
- Armadillo → throw-able, lightweight (4 lbs.) robotic platform that can be used for surveillance and observation. Fitted with Manipulators and several payloads for counter IED/EOD tasks.
- Scorpion → robust all terrain and stair climbing platform for use in unknown, hostile areas for reconnaissance and EOD tasks with the ability to carry payloads of 26 lbs. Base upon which the AEODRS mobility platform is being developed.
- Tracksorb → modular wheels designed to absorb impact on the vertical axis and grab onto uneven terrain to potentially climb over obstacles. Patent Pending design.
- Video cameras, Turrets, Mobile Chargers.

Our core competencies include:

- Design → includes both concept and system level design; detailed design, integration & test as well as rapid prototyping.
- Engineering → includes product design, cybernetics, industrial and ergonomics expertise.

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- Manufacturing → ability to scale for small and large production runs.
- Services → offering service and maintenance agreements as well as repairs of the SUGVs.

Macro USA is strategically located on McClellan Air Force Base; the McClellan Business Park offers our Team access to various machine and fabrication shops, NDI test laboratory, Chamber test facilities as well as the “Tactical City”; this is a mock city with designated schools, buildings and other establishments that will allow our Team to test and evaluate our systems in a realistic environment.

M-Swiss Consulting S.A.

M-Swiss Consulting S.A. is a Swiss defence company specializing in Unmanned Ground Vehicles and is headed by Cino Robin Castelli.

The company holds an extensive trade and brokerage permit in Defence materiel as well as a NATO CAGE registration.

Robin is the team leader for Team MacroUSA and is responsible for the European market and initiatives.

Selection of scenario (for both platforms):

1. Reconnaissance and surveillance X
2. Transport ____
4. EOR/EOD/IEDD/CIED X

Proof of citizenship: Will provide ASAP.