

# MacroUSA ElRob 2010

## Team Information

Picture of vehicles:



Armadillo M-UGV and Controller



Scorpion S-UGV

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Name of vehicles: Armadillo and Scorpion

Picture of team leader:



Name of team leader: Cino Robin Castelli  
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# MacroUSA ElRob 2010

## 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 came from MacroSwiss S.A. and 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 successfully met Preliminary Design Review milestones, Critical Design Review Milestones and is on schedule for delivery.

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 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.

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

MacroUSA's product offerings include:

- Armadillo → throw-able, lightweight (4 lbs.) robotic platform that can be used for surveillance and observation.
- Scorpion → robust all terrain and stair climbing platform that can also be tossed into unknown, hostile areas for reconnaissance with the ability to carry payloads of 26 lbs.
- 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:

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- 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.
- 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 sniper detection system in a realistic environment.

Macro USA is currently working with the following Customers (as well as other customers that cannot be disclosed):

- Rapid Equipping Force (REF) → working with REF to develop a specialized 6x6 SUGV
- Pacific Northwest National Laboratory (PNNL) → working with PNNL to design a robotic platform to carry a DOE sensor package for PNNL.
- Air Assault Expeditionary Force (AAEF) → invited Macro USA to participate in Spirals D and E experiments; AAEF selected the Micro SpyRobot (MSR) to participate in this event for the second year.
- Army Asymmetric Warfare Group (AWG) → working with the AWG to design a custom Armadillo.
- Combat Development Directorate (CDD) Advanced Technologies Office → also working with the CCD to design a custom Armadillo.

### **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, formerly founder and CEO of Macroswiss S.A. between 1999 and early 2008.

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 RSTA
2. Reconnaissance and Surveillance EOR/CRNE

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## Team Information

2. Camp security \_\_\_\_

3. Transport \_\_\_\_

4. Mule \_\_

5. EOD \_\_

Proof of citizenship:

Will provide ASAP.