

The “RED” Team

Is Looking for the Best of the Best

If you, or someone you know, wants to be considered for the team, let us know.

Name _____
Company _____
Address _____
City _____ State ____ Zip _____
Phone _____
Fax _____
Email _____

I am interested as:

- A Company
- An Individual

I am Interested in:

- Sponsorship
- Chassis
- Mechatronics
- Software or Computers
- Race Support
- Other _____

Please submit to address on back

The “RED” Team

Under the direction of
Dr. William “Red” Whittaker

Accepts The Grand Challenge

The “RED” Team

Dr. William L. “Red” Whittaker
Fredkin Professor
Director, Field Robotics Center

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The Robotics Institute
Field Robotics Center, NSH2109
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Pittsburgh, PA 15213-3890



Not Just Another Race

The Grand Challenge is an unprecedented unmanned vehicle race that defies current technology. The rules are simple.

- Will start somewhere around Los Angeles
- Will end somewhere around Las Vegas
- Course known 2 hours before start
- Vehicle must be Autonomous
- Only two commands: Start & Stop
- Will occur on March 13, 2004

The course will include hill climbs, water hazards, pinch-points, dry lake beds, and crude roads. Race is about 250 miles to be completed in less than 10 hours.



Is This Exciting or What!

How do sensors see terrain? How does a vehicle go over or around unknown obstacles? How do computers plan, strategize and replan? How will a chassis and drive train go the distance, take the beating, and deliver victory?

The Foundation of

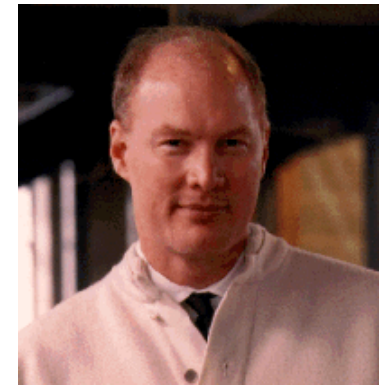
**The
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The Robotics Institute of Carnegie Mellon University located in Pittsburgh Pennsylvania has over 20 years of experience successfully developing unmanned vehicles under the direction of Dr. William “Red” Whittaker. Their successes include vehicles used in mining and farm equipment, nuclear decommissioning, mobile robots for hazardous waste and nuclear accident assessment and land vehicle navigation research for robotic exploration of planetary surfaces.

Prior Robots



About “Red”



Dr. William “Red” Whittaker is the Fredkin Professor of Robotics, Director of the Field Robotics Center, and founder of the National Robotics Engineering Consortium, all at Carnegie Mellon University. Dr. Whittaker also is the Chief Scientist of RedZone Robotics.

He has an extensive record of successful developments of robots for craft, labor and hazardous duty. Examples include robots in field environments such as mines, work sites and natural terrain. Dr. Whittaker’s portfolio includes the development of computer architectures for controlling mobile robots; modeling and planning for non-repetitive tasks; complex problems of objective sensing in random and dynamic environments; and integration of complete field robot systems.

Dr. Whittaker is widely known for his achievements in the robotics field.

A few of his awards are:

- Engelberger Technology Award
- Design News Special Achievement Award
- Hero of Manufacturing Award
- Aviation & Space Technology Award

Dr. Whittaker has advised twenty-six Ph.D. Students, has sixteen patents, and has authored or co-authored over 200 publications.