



WMR has been invited to the Remote Technology Open Day hosted by Sellafield in Cumbria on 3rd March 2009. The Rescue Robot will be presented along with other robotics research within WMG and WIMRC. This is a chance to explore other real-world applications of the rescue robot technology, especially for nuclear decommissioning.

www.mobilerobotics.warwick.ac.uk

**WARWICK MOBILE ROBOTICS**

**Electronics & Systems**

**Mechanical**

Timeline

Alex Bunn, Julian Faulkner, Tim Fletcher, Matthew Rooke, Oliver Vogel, James Williams, Reuben Williams, Stefan Winkvist

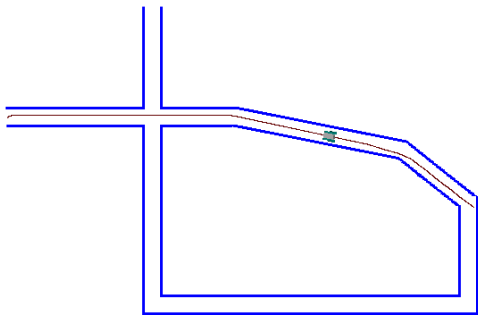
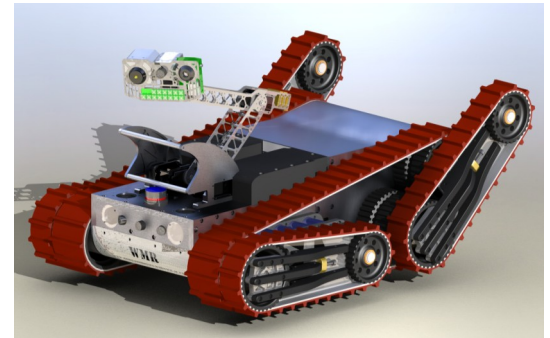
"Innovating mobile robotics through research and international competition"

## Poster Presentation 2009

View the poster at [www.mobilerobotics.warwick.ac.uk](http://www.mobilerobotics.warwick.ac.uk)

The redesign of the rear section is drawing to a close with finalised design and manufacture files being created. The first components are now being machined, including the new Acetal copolymer pulleys designed to help in the mass reduction of the robot and to lower the drive power requirements for overcoming belt-pulley friction forces.

Development of the robot arm is progressing with a focus on a stiffer and more stable platform for mounting sensors. Design changes combined with upgraded servo motors and control systems for the arm should give a much improved and more useable array of sensors.



A simulator is under development which allows the automation code and strategies to be tested when the robot is not available.

The simulator will ultimately attempt to mimic all the sensors onboard the robot apart from vision. Currently only the LiDAR sensor and the motor encoders are simulated.

in association with...

