



Team Information

Picture of vehicle:



Name of vehicle:	BLACK MAX
Picture of team leader:	
Name of team leader:	Dr Marcus Penny
Team Name:	QinetiQ
Team E-mail:	MDPENNY@QinetiQ.com
Website:	www.QinetiQ.com
Location:	Farnborough, Hampshire, England
Institution/Company:	QinetiQ
Address:	Cody Technology Park Farnborough, Hants , UK GU14 0LX
Telephone:	++44-1252-392000
Fax:	++44-1252-393911



Team Information

Team Description:

The QinetiQ Team is a company entry into the ELROB2006. The team is largely composed of research engineers from QinetiQ research facility based at Farnborough, England. Operating as part of the QinetiQ Land Systems division under the leadership of Mr Simon Christoforato and Mr Tim Young. The QinetiQ Team's attendance at this event is supported internally without sponsorship from outside organisations.

Our vehicle is called the "BLACK MAX". This version of Black Max is based on the prototype "Carson" vehicle developed by QinetiQ a number of years ago. It is a highbred Diesel-Electric powered vehicle based on a skid steer high mobility chassis, modified with under-body skid plates and a reinforced front bumper. The vehicle is actuated via a wireless digital radio link to the integrated drive-by-wire system developed by QinetiQ for its range of remote control bomb disposal vehicles. The vehicle incorporates measurements from GPS, and a three axis Head/Pitch/Roll sensor. While moving, the environment is perceived through a number of low light full colour cameras, and has the option of fitting a thermal image vision system. Four of the video pictures can be simultaneously sent to the control station to allow the pilot to command the RCV to avoid collisions with obstacles in real-time while advancing along the ELROB2006 route.

The development of the original "CARLOS RCV" system began in 1990 following a request to develop a vehicle that could recover sea mines across a beach environment. The Black Max RCV is a 4th generation vehicle based on this range of vehicles with each vehicle expanding on the capabilities of its predecessor. At the time the of the initial team application, the vehicle is in regular use and has logged dozens of hours of operational service on QinetiQ proving grounds.

Sponsors:

QinetiQ Land Systems.

Selection of scenario:

urban X non-urban X EOD/IEDD/UXO X
exhibition X

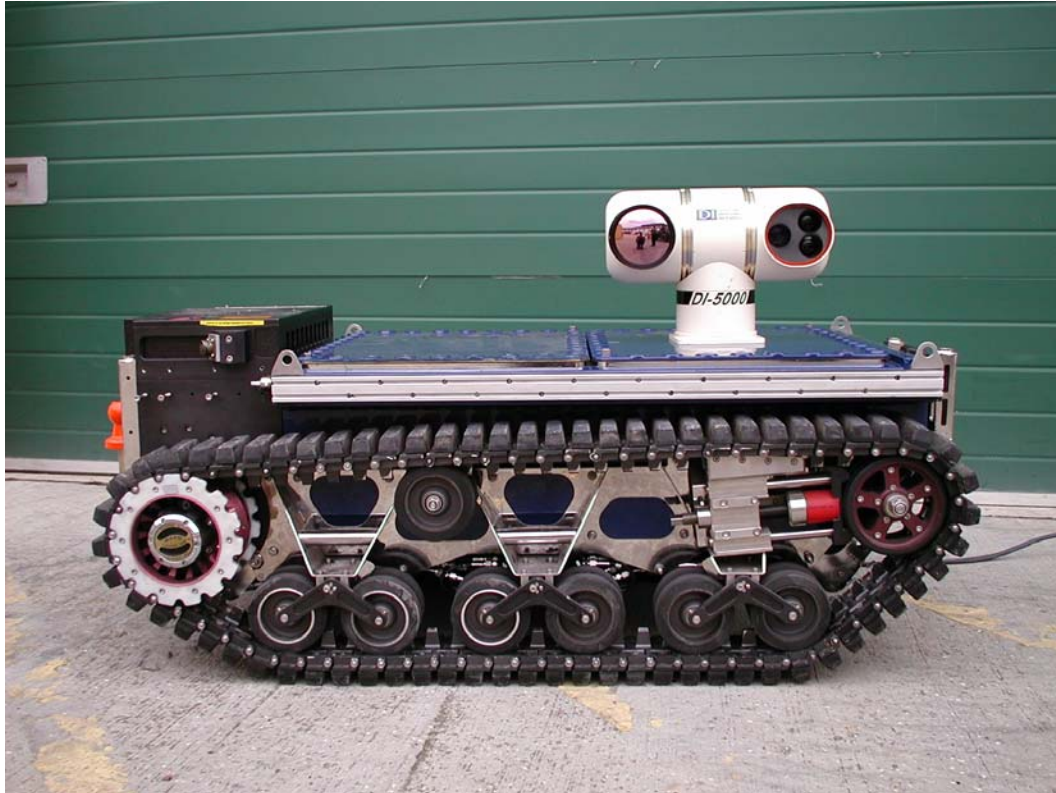
Proof of citizenship:

Forenames	* Marcus David
Surname	* Penny
Date of Birth	* 02/01/1972
Place of Birth	* Southampton
Nationality	* BRITISH
Passport Number	* 200172047
Place of Issue	* UKPA
Date of Issue	* 11/03/1999



Team Information

Picture of vehicle:



Name of vehicle: LONGCROSS HIGH MOBILITY CHASSIS

Picture of team leader:

Name of team leader: Dr Marcus Penny

Team Name: QinetiQ

Team E-mail: MDPENNY@QinetiQ.com

Website: www.QinetiQ.com

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Team Information

Our vehicle is called the “LONGCROSS”. This version of Longcross is chassis base for the prototype “Carver” EOD RCV vehicle developed by QinetiQ over the past 3 years. It is an all electric RCV with the potential top become a highbred Diesel-Electric vehicle if required. The vehicle was designed as a high mobility go anywhere tracked vehicle with very low ground pressure. The all composite body is made of carbon fibre and Kevlar to give good impact and ballistic protection. The vehicle is actuated via a wireless digital radio link to the integrated drive-by-wire system developed by QinetiQ for its range of remote control bomb disposal vehicles. The vehicle incorporates a GPS, and a three axis Head/Pitch/Roll sensor. Situation awareness is provided through a number of low light, full colour cameras and has the option of fitting a thermal image vision system. Four of the video pictures can be simultaneously sent to the control station to allow the pilot to command the RCV to avoid collisions with obstacles in real-time while advancing along the ELROB2006 route.

The development of the original “LONGCROSS” high mobility chassis began in 2001 following a request by UK MoD to develop a vehicle that could be used as a bench mark against which commercial contenders could be judged. This Longcross variant is the fully sealed CBRN investigation version. An IQbot version has an integrated sampling and gas analysis system built into the 19” format payload incorporated into the rear of this vehicle. At the time of the initial team application, this vehicle is in regular use and has logged dozens of hours of operational service on QinetiQ proving grounds.

Sponsors:

QinetiQ Land Systems.

Selection of scenario:

urban X non-urban X EOD/IEDD/UXO _
exhibition X

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Team Information

Picture of vehicle:



Name of vehicle: RANGEMASTER
Picture of team leader:
Name of team leader: Dr Marcus Penny
Team Name: QinetiQ
Team E-mail: MDPENNY@QinetiQ.com
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Our vehicle is called the "Rangemaster". This version of Rangemaster is based on the prototype "Carson" vehicle developed by QinetiQ a number of years ago. It is a highbred Diesel-Electric powered vehicle based on a skid steer high mobility chassis, modified with under-body skid plates and a reinforced front bumper. The vehicle is actuated via a wireless digital radio link to the integrated drive-by-wire system developed by QinetiQ for its range of remote control bomb disposal vehicles. The vehicle incorporates measurements from GPS, and a three axis Head/Pitch/Roll sensor. While moving, the environment is perceived through a number of low light full colour cameras, and a thermal image vision system. Four of these pictures are simultaneously sent to the control station to allow the pilot to command the RCV to avoid collisions with obstacles in real-time while advancing along the ELROB2006 route.

The development of the original "CARLOS RCV" system began in 1990 following a request to develop a vehicle that could recover sea mines across a beach environment. The current vehicle is based around a Mk5 version with each vehicle expanding on the capabilities of its predecessor. At the time of the initial team application, the vehicle is in daily use and has logged dozens of hours of operational service on ballistic testing ranges where it is used as a safety inspection vehicle.

Sponsors:

QinetiQ Land Systems.

Selection of scenario:

urban X non-urban X EOD/IEDD/UXO X
exhibition X

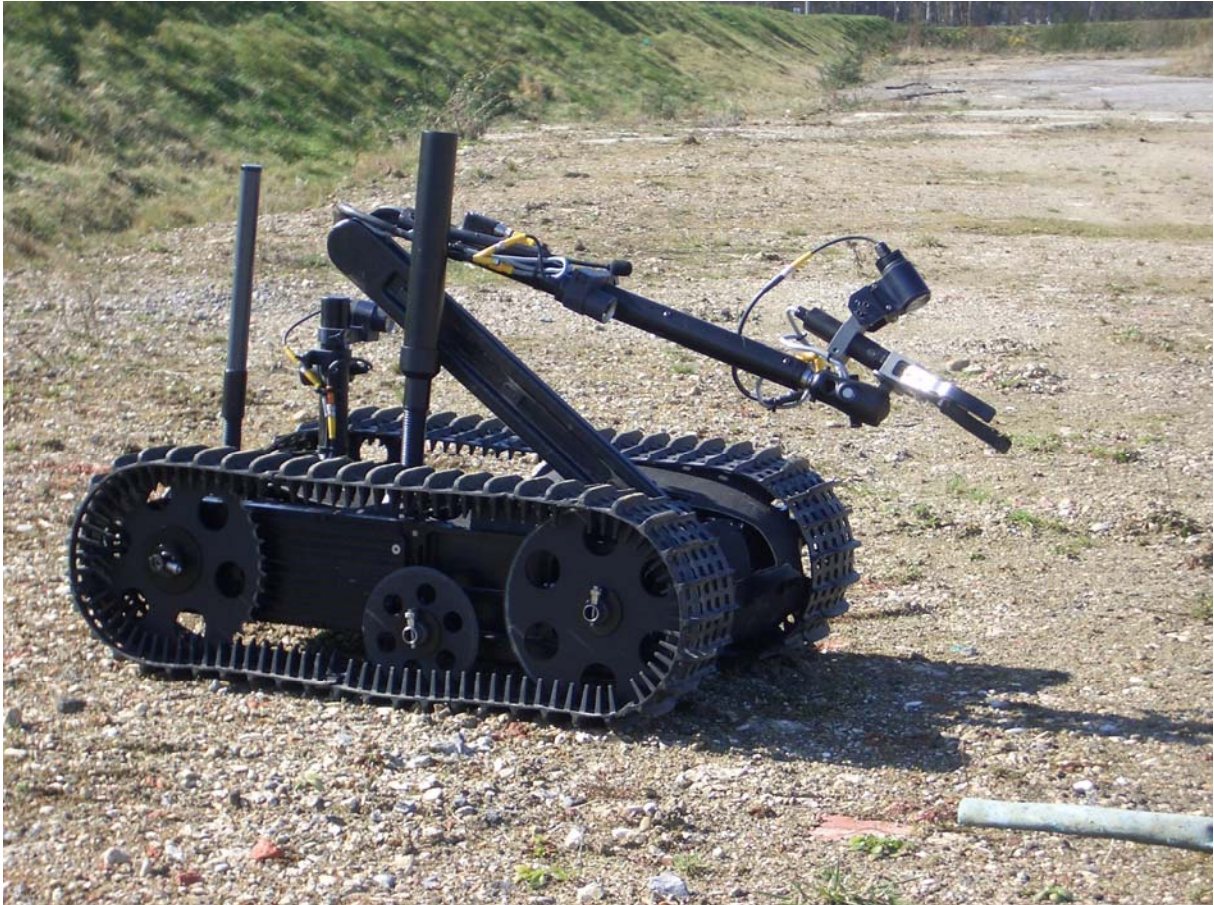
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Date of Issue	* 11/03/1999



Team Information

Picture of vehicle:



Name of vehicle: TALON

Picture of team leader:

Name of team leader: Dr Marcus Penny

Team Name: QinetiQ

Team E-mail: MDPENNY@QinetiQ.com

Website: www.QinetiQ.com

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Our vehicle is called the "Talon". This version of Talon is based on the proven and fielded design of Remote control vehicle developed by Foster Miller a QinetiQ owned company based in the USA. It is an all electric powered vehicle based on a light weight, skid steer, high mobility chassis. The vehicle is actuated via a wireless digital radio link to the integrated drive-by-wire system developed by Foster Miller for its range of remote control bomb disposal vehicles. The vehicle is of a rugged basic design being fast and light the vehicle is capable of climbing stairs and moving over unstructured ground. The route and environment is perceived through a number of low light full colour camera. Four of the video pictures can be simultaneously sent to the control station to allow the pilot to command the RCV to avoid collisions with obstacles in real-time while advancing along the ELROB2006 route.

The development of the Talon system began following request from the US DoD to develop a vehicle that could de-risk tactical and EOD operations. Over 200 Talon RCV are in service with the forces operating in IRAQ. At the time the of the initial team application, this TALON vehicle is in regular use and has logged dozens of hours of operational service on QinetiQ proving grounds.

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QinetiQ Land Systems.

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