



# Company Spec Sheet

13th Annual MATE International Student ROV Competition  
Thunder Bay National Marine Sanctuary, June 26-28 2014



## Robert Gordon University Aberdeen, Scotland

Distance travelled — 3442 Miles

Company: **RGU Special ROV Service**

ROV: **The Swimming Haggis Mk II**

### Educational Credentials

Employees comprise of 3rd year Mechanical and Electrical, and Electronic and Electrical Engineering students from Robert Gordon University Aberdeen. All employees our participating for the first time in 2014. (RGU first took part in the MATE competition in 2007.)

### Meet the company employees



From left to right:

**Robbie Williams** - CFO - Mechanical Design Engineer - MEng Mechanical and Electrical Engineering

**Bruce Bob Mackenzie** - Electronics Design Engineer - MEng Electronic and Electrical Engineering

**Matthew Head** - CEO - Pilot - Mechanical Design Engineer - MEng Mechanical and Electrical Engineering

**Ross Templeton** - Co-pilot—Electronics Design Engineer - MEng Electronic and Electrical Engineering

**Matthew Downie** - Electronics Design Engineer - MEng Electronic and Electrical Engineering

### Specifications of The Swimming Haggis MK II

Cost (to date) - £700 GBP (approx. \$1170 USD)

Dimensions - L 0.6 m x W 0.5 m x H 0.335 m

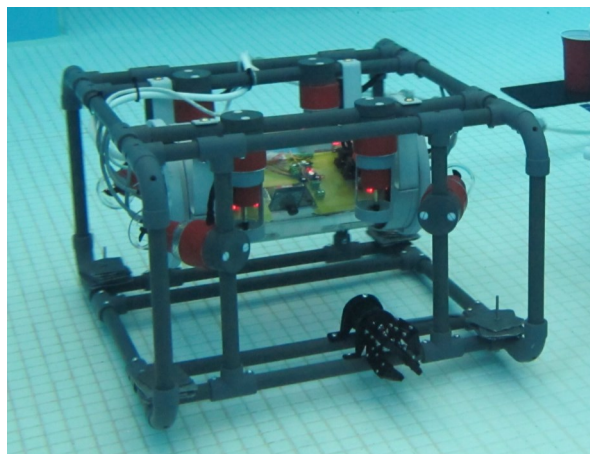
Primary Materials - PVC Piping

#### **Safety Features:**

- 40A fuse shore-side
- Propeller guards
- Rounded edges
- Positively buoyant

#### **Special Features:**

- Vectored Thrust
- Tilt control
- Full 360° analogue control
- Claw Manipulator
- Flat Tool Skid
- Tilting Main Camera
- Fits standard flight case



Hamish the Swimming Haggis  
— Mascot