



# Subsea Technical Services

Mintlaw Academy Young Engineers  
Aberdeenshire  
Scotland



*Travelling 3396 miles to the International  
Finals in Alpena, Michigan*

This is our second successive year competing at the international final after defending our title at the Scottish Regional Competition back in April. Our team comprises of six members, some of whom have just finished secondary school and some who are starting their sixth and final year.

## Subsea Technical Services Team

**Kieran Yule – Chief Mechanical Engineer, Pilot**

Leaving school for University | 2<sup>nd</sup> year in MATE

**Gareth Swinney – Mechanical Engineer, Co-Pilot**

Returning for 6<sup>th</sup> year | 2<sup>nd</sup> year in MATE

**Scott Turriff – Chief Machinist**

Returning for 6<sup>th</sup> year | 1<sup>st</sup> year in MATE

**Liam Forbes – CEO**

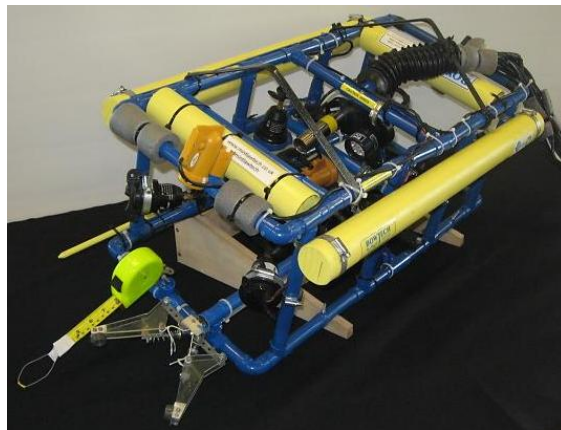
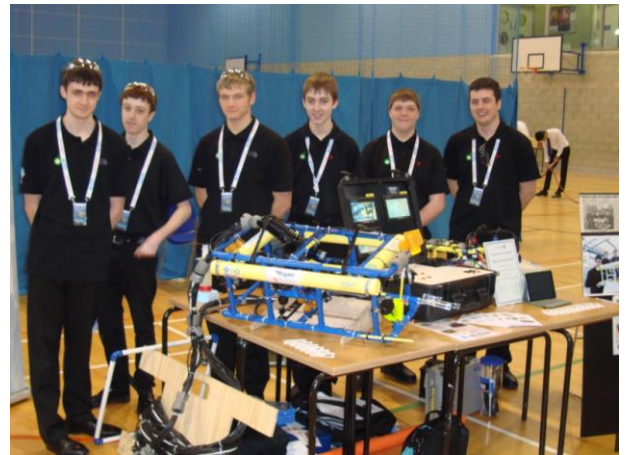
Leaving school for apprenticeship | 2<sup>nd</sup> year in MATE

**David Finnie – Machinist**

Returning for 6<sup>th</sup> year | 2<sup>nd</sup> year in MATE

**Douglas Leel – Chief Electrical Engineer**

Leaving school for apprenticeship | 2<sup>nd</sup> year in MATE



**Name - Poseidon**

**Total Vehicle Cost - \$6,498.99 (Including Donations)  
\$658.39 (Excluding Donations)**

**Primary Material – PVC Piping**

**Dimensions – L 900mm W 350mm H 300mm**

**Total weight in air – 14kg (Excluding Tether)  
23kg (Including Tether)**

**Special features – Push button control system. Manipulator with ability to rotate 360°. Three electromagnets to attach various tools to complete the tasks. Shipwreck Measuring Device (SMD). A spike for retrieving the bottles.**

**Safety features – 25A fuse on the positive lead of the main power connection. All wires housed within the PVC piping to prevent snagging. Heat shrink sleeving on all sharp edges.**

## Thanks to...

**Ali Hynd – Our Teacher**  
**Neil Stagg – Our Mentor**  
**Robert Gordon University**  
**Rapid Electronics**  
**Trojan Crates**  
**Oceaneering**  
**Subsea 7**  
**DOF Subsea**  
**Round Table**

**BP**  
**MATE**  
**Bowtech**  
**Subsea UK**  
**Hydro Group**  
**ROVOP**  
**Technip**  
**Fugro**  
**EnQuest**



Hydro Group  
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