Company Name: Narwhal

School Name: Keang Peng School (Secondary Section)

Home State: AVENIDA HIPÓDROMO, NO.389 KEANG PENG SCHOOL(SECONDARY SECTION) Macau 00853

Distance Required Traveling to Orlando: 8743 miles

History of Company: We has participated in a regional event but this is the second trip to international completion

Members:

<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Grade</th>
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</thead>
<tbody>
<tr>
<td>Lou Weng Keong</td>
<td>Prime Mechanical Engineer &amp; CEO</td>
<td>6</td>
</tr>
<tr>
<td>Cheong Chi Kit</td>
<td>Electronic Engineer &amp; CTO</td>
<td>5</td>
</tr>
<tr>
<td>Io, Hong Wai</td>
<td>Vice mechanical Engineer</td>
<td>2</td>
</tr>
<tr>
<td>Mok, Kuai Un</td>
<td>Graphic designer &amp; Instruments director</td>
<td>2</td>
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<tr>
<td>Lou, Cheng Nong</td>
<td>Graphic designer &amp; Chief pilot</td>
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<td>Kan, Hok Tim</td>
<td>Mechanical trainee &amp; CFO</td>
<td>2</td>
</tr>
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ROV Name: Narwhal

Total Cost of Construction: HK$ 58,145

Primary Materials Used in Construction: Aluminum and acrylic sheets

Approximate Dimensions: 0.6m X 0.6m X 0.5m (Width X Depth X Height)

Total weight: 20 Kg

Maximum Electric Power Consumed: 189W

Maximum Propelling Velocity: 26cm/s

Maximum Turning Velocity: 1.58rad/s

Safety features:
1. Low voltage operated control panel and high voltage isolated design;
2. Double waterproofing technique (water-resistance paint and O-rings) & Fuses for precaution of short circuit;
3. Ducts for each thruster to avoid getting entangled in seaweeds or other underwater obstacles.

Special features:
1. Versatile movements gained, including moving forward and backward, making turns as well as lateral movements;
2. Ease-to-use and moving velocity control available because we adapt using joystick as the main user control interface;
3. Portable manipulator which can be replace with different kinds of grippers and devices;
4. Ball-type compass whose pointer won’t get stuck because it isn’t horizontal;
5. Equipped a measuring tape with a “easily attach hook” at the front and the metal-detecting switch and sample sucker;
6. There is a platform at the bottom of Narwhal to mount different kinds of devices.