

ROV - RIP TIDE



MPC

Monterey Peninsula College
Robotics Team
Monterey, California



*Team Members: Lisa Rike,
Alex Hay, Chris Piland, Ross
Williams (Leader), Lenz Elliott,
Ben Holland, Chris Aramkul, and
Grant McGregor*

Mentor: Jeremy Hertzberg

Distance from Monterey, CA to Hilo, HI is about 2,100 miles

MPC is not new to the international competition, but we have two **first time team members**: Lisa Rike and Chris Piland. All of our team members are **college students**.

We spent \$8,343.22 for our ROV and travel, \$3,534.68 of this was **donations**. Almost 50% was no cost to us.

The **primary materials** we used were PVC Board, PVC Tubing

The **dimensions** of our vehicle are approximately 45.72cm by 33.02 cm by 50.8 cm and **weight** approximately 16kg.

We have a couple **safety features**, the biggy is our kill switch at the surface and the other is specially built protection around our propellers.

Our **special features** include our Voith Schnieder Motors and our underwater electronics cooling system.



Figure 2 - ROV Rip Tide before payload items and buoyancy installed



Figure 1 - ROV The Beast - Prototype - Used to test equipment and tools before attaching to competition ROV Rip Tide