



MATE ROV Barracuda Presentation/Lesson PPT Downloads

Introduction to Remotely Operated Vehicles

[ROVs 101](#)

[Engineering Design Cycle](#)

[Missions](#)

[How to Run ROV-in-a-Bag](#)

[Getting Started](#)

Tools and System: Frame

[Using Tools](#)

[General Frame Information](#)

[Frame Design and Stability](#)

[Team Building Exercise](#)

[Tools and Tool Management in the Classroom](#)

Basic Electronics

[Multimeter Basics](#)

[How Switches Work](#)

[How Switches Work Worksheet](#)

[Simple Circuits](#)

[Simple Circuits Worksheet](#)

[Barracuda Controller Simplified](#)

Systems: Power, Control, Tether & Propulsion

[Soldering & Waterproofing Wires](#)
[Solder & Seal Connectors](#)
[Soldering Wires Worksheet](#)
[How to Solder Components to a PCB](#)
[Creating your ROVs Power Wire](#)
[Power Options for Your ROV](#)
[Creating the Practice Board](#)
[Building the Barracuda Control Box](#)
[General Tether Information](#)
[Connecting the Tether to the Control Box](#)
[Waterproofing a Camera](#)
[Adding a Camera to a Barracuda ROV](#)
[Connecting a Monitor to a Barracuda ROV](#)
[Attaching Propellers to the Motors](#)
[Creating the Tether Management Cross](#)
[Connecting the Motors to the Tether](#)
[Barracuda SID](#)
[Basic Electrical Troubleshooting – Barracuda](#)
[Tracing Voltage Through the Barracuda ROV](#)

Converting From Analog to Digital

[Soldering the Digital Components](#)
[Installing Programming and Testing the Digital Components](#)

System: Payload

[Hydraulic Manipulators](#)
[Non-moving Manipulators](#)

Systems: Buoyancy / Ballast

[ROV Buoyancy](#)
[Stability](#)

ROVs Outside the Classroom

[MATE ROV Competition Videos](#)
[Virtual Field Trips](#)
[Directed Learning Questions](#)
[Directed Learning Questions Searches](#)

Safety and Operations

[General ROV Safety](#)

