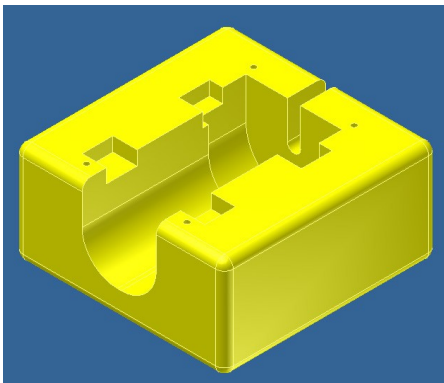


## Project Objectives

Our senior design group plans to complete the ROV that was worked upon by the previous years senior design group. Our primary objective is to get the ROV to a point where we have a finished product that is able to be utilized by the Department of Marine and Environmental Systems in the field. The scope of this project will entail taking what the current group has been able to develop and from there finish the remaining systems and get the ROV operational. Things which will need to be addressed are the completion of the electronics, floatation, a recovery and deployment system, renovations to the control case, welding and construction of the frame, affixing the motors, and connecting the umbilical to the pressure housing. Once completed, we hope to use the ROV at sea



ProEngineer design of the ROV during the Marine Field Projects in order to supplement other instruments and hardware onboard.



*Florida Institute  
of Technology*

*High Tech with a Human Touch™*

### ModROV

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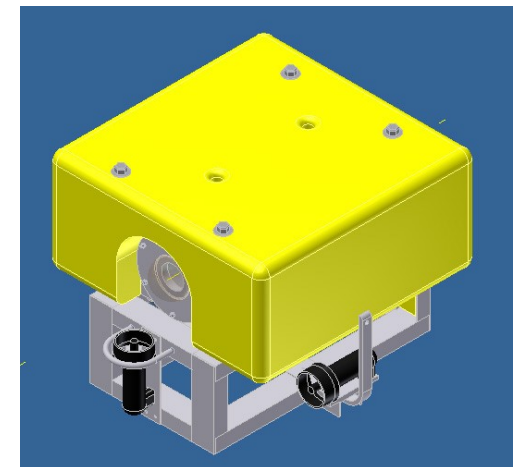
E-mail: dmes@fit.edu



## ModROV

Senior Design Project 2009

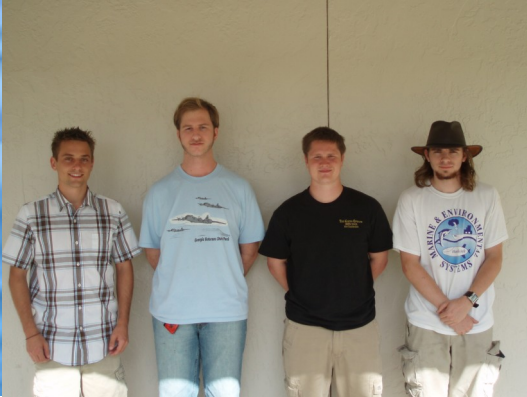
# Modular Remote Operated Vehicle



[Website: my.fit.edu/~swood/](http://my.fit.edu/~swood/)



## 2009 ROV Senior Design



Our Senior Design Team: Zach Barton (on far right), James Miller (second from right), Morgan Marmitt (second from left), Rick Paradis (on left)

Zach Barton:  
Junior Ocean Engineering

James Miller:  
Junior Ocean Engineering

Rick Paradis:  
Junior Ocean Engineering

Morgan Marmitt:  
Junior Ocean Engineering

Advisor:  
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### Features

- Frame is Al T6-6061  
2"x1" Channel
- Pressure Chamber: 6" diameter tubing with flange on each side
- Clear dome on front of pressure housing for camera view
- Joystick control
- LCD video display
- 100 ft. tether
- Deployment/Recovery device
- Mounted lights

### Timeline

Our project began on January 12, 2009 and we should have a working ROV to be tested by the Marine Field Project cruise. A fully operational modular ROV with the additional lights installed should be complete by July 2009.

#### ModROV

For any further questions please contact us at:  
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