

# Pneumatics

## Overview

The pneumatics system will provide a means for controlling actuators within the submarine such as the claw, torpedos, and marker droppers. Pneumatics are controlled via simple on-off commands to the pneumatic in the form of high and low voltages.

## Design

A microcontroller will be utilized as a GPIO expander and will be implemented as a ROS node on the microcontroller itself. This node will subscribe to a topic to control actuators based on boolean values.

## Resources

Part	Description	Datasheet
ATMega1284P	Microcontroller to be used on the project.	<a href="#">Datasheet</a>
Resource	Description	
<a href="#">Arduino Tutorials</a>	Code tutorials for programming Arduino devices.	
<a href="#">ATMega1284P Arduino Core</a>	Arduino Core for the ATMega1284P	

From:

<http://robosub-old.eecs.wsu.edu/wiki/> - **Palouse RoboSub Technical Documentation**

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<http://robosub-old.eecs.wsu.edu/wiki/ee/pneumatics/start?rev=1474584745>



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