

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. | Datasheet |
| Resource | Description | |
| Arduino Tutorials | Code tutorials for programming Arduino devices. | |
| ATMega1284P Arduino Core | Arduino Core for the ATMega1284P | Core |

From:

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

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<https://robosub.eecs.wsu.edu/wiki/ee/pneumatics/start?rev=1474584728>

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