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Pneumatics

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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

Resource	Description
Arduino Tutorials	Code tutorials for programming Arduino devices.
₱ATMega1284P Arduino Core	Arduino Core for the ATMega1284P
I POCSARIAL LINCHMANTATION	RosSerial is the communication protocol that allows implementation of a ROS node on a microcontroller.
ATMega1284P	Microcontroller to be used on the project.

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

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