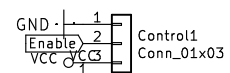
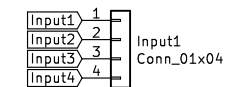
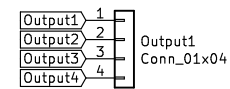


Each board controls four enable pins.  
Motor1 EnA, Motor1 EnB, Motor2 EnA, Motor2 EnB

The Inputs are from either a Nucleo or Arduino output a high or low digital signal.  
The enable pin is controlled using another board. The enable determines if the motor controller should be on or off.  
When Enable is high then the motor controller should be on and we can control the motors normally.  
When Enable is low then the motor controller is off and the input does not matter.

- MountingHole1
- MountingHole2
- MountingHole3
- MountingHole4



Each motor controller has 2 Enable pins per motor (EnA and EnB).  
EnA Low, EnB Low = Motor coasts / off  
EnA High, EnB Low = Motor goes forward  
EnB Low, EnB High = Motor goes backwards  
EnA High, EnB High = Motor brakes and doesn't move.

Input Low, Enable Low = Output Low  
Input High, Enable Low = Output Low  
Input Low, Enable High = Output High  
Input High, Enable High = Output Low

**Tyler Julian (Sooner Competitive Robotics)**

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