**Wheel.lvlib:Wheel_Control_POS.vi**

Help by FRC 836 - The RoboBees

This VI sets the shooter wheel position using a PID control VI with parameters set by

the tbh (Take Back Half) control VI.
Wheel DevRef In

Shooter Config reference
Shooter Data

MotorControlDevRef

DeviceStatus

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

Right-click the error in control on the front panel and select Explain Error or Explain Warning from the shortcut menu for more information about the error.

code

code is the error or warning code.

Right-click the error in control on the front panel and select Explain Error or Explain Warning from the shortcut menu for more information about the error.

source

source describes the origin of the error or warning.

Right-click the error in control on the front panel and select Explain Error or Explain Warning from the shortcut menu for more information about the error.

Type

PWM
<table>
<thead>
<tr>
<th>PWM Channel</th>
<th>DeadBand</th>
<th>Name</th>
<th>maxPositivePwm</th>
<th>minPositivePwm</th>
<th>centerPwm</th>
<th>maxNegativePwm</th>
<th>minNegativePwm</th>
<th>angularRange</th>
</tr>
</thead>
</table>

**CAN**

- **Device Number**
- **Control Mode**
- **Semaphore**

*semaphore* is a reference to an existing or newly created semaphore.
Max Vout

**TalonSRX Control Mode**

**Control Mode** specifies how the Talon SRX will control the motor. Percent VBus is the standard open-loop mode that is also accessible via the PWM interface on the Talon SRX.

**Invert**

**Set Point**

**Actual**

**CW is Up**

**AIDeviceRef**

**AIDeviceRef** specifies a reference to the analog channel you want to use. Use the Open VI to open this reference.

**DevStatus**

**status**

**status** is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

Right-click the **error in** control on the front panel and select **Explain Error** or **Explain Warning** from the shortcut menu for more information about the error.

**code**
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**source**

**source** describes the origin of the error or warning.

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**Analog Channel**

**source**

WPI_MotorControlDeviceRef.ctl

C:\Program Files (x86)\National Instruments\LabVIEW 2015\vi.lib\Rock Robotics\WPI\MotorControl\WPI_MotorControlDeviceRef.ctl
WPI_CANJaguar_ControlMode.ctl

WPI_PWMDeadband.ctl

FPGA_DIOPWMChannel.ctl

WPI_MotorControlSetOutput.vi

WPI_CANTalonSRX_APIControlMode.ctl

WPI_MotorControlType.ctl

Semaphore RefNum
FPGA_AICchannel.ctl

Wheel.lvlib:WheelControl.ctl

MA3_Revolutions.vi

Wheel.lvlib:Data.ctl

Stable.vi

WPI_AnalogChannelGetVoltage.vi

WPI_AnalogChannelDevRef.ctl
Position in Hierarchy
Iconified Cluster Constants