**Lab 2 Report**

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**Design Questions**

*What is the control signal frequency specification of the motor driver used on the daughter board?*

Answer

*What is the chosen output frequency of your PWM generator?*

Answer

*Assuming a maximum speed of 6000 rpm, what is the maximum motor speed your design will calculate with the provided 192 count/turn encoder attached to the motor?*

Answer

*How frequently does your design determine the motor's rate of rotation?*

Answer

*Calculate approximately how long it takes to change the speed goal from 0 to full speed in one direction if the button is held constantly.*

Answer

*At maximum gain, what is the pulse width when the goal is minimum and maximum for the free-running, enabled motor?*

Answer

**Counters**

*goal-counter*

Text

*speed\_counter*

Text

**Code Organization**

Text

**Top-Level Design Diagram**

Diagram

**Oscilloscope Captures**

Captures

**Collaboration**

Text