**BLDC Motor Controller using MSP432**

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**Overview**

Brushless DC motors (BLDCs) have permanent magnets that spin and a fixed armature. Electronic controller is used for motor commutation. BLDCs are available in 1-Phase, 2-Phase and 3- Phase.

In this project I am planning to implement a 3-Phase BLDC controller. The PWM output from MSP 432 is used to control the 3-Phase BLDC. The PWM duty cycle controls the speed of the BLDC. The TIMER PWM value is used for adjusting the PWM duty cycle. The input from potentiometer is used for controlling the speed of the motor. The ADC samples this input which in turn is used for producing the desired motor speed. Button presses can be used for entering and exiting low power mode, thereby turning the BLDC ON and OFF.