

# Control a Servo Motor with PWM using MPLABX<sup>®</sup> Code Configurator

DATE: 11/2/18

TIME: 9:00 am to 4:00 pm

LOCATION: Microchip Technology Regional Training Center, 112 Turnpike Road, Suite 100, Westborough Executive Park, Westborough, Massachusetts 01581

COURSE DESCRIPTION: Write code using the Microchip Code Configurator to control a servo motor using PWM techniques. Students write the code, and debug their project on a Curiosity Development Board DM164137 that they keep.

PREREQUISITES: Basic familiarity with PIC<sup>®</sup> Microprocessors, C, MPLAB<sup>®</sup> X, and Code Configurator

## OUTLINE:

- Introduction to the Curiosity Development Board DM164137
- Quick review of the Microchip Code Configurator Tool in MPLAB<sup>®</sup> X
- Review of how a servo motor is controlled
- Review of different PWM techniques with advantages and limitations
- Hands on Lab

## MATERIALS PROVIDED:

- Curiosity Development Board DM164137, Servo Motor, and USB cable
- PDF of presentation.
- Sample code routines used in class

## REQUIRED:

- Your computer with MPLAB<sup>®</sup> X v 3.30 or later and XC8 v 1.37 or later installed.
- Payment 2 weeks in advance

FEE: \$399.00 per person.

ACCEPTED PAYMENT: Check, PayPal, or Credit Card.

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