

# PIC32MX<sup>®</sup> Microcontrollers Hands on

DATE: 9/7/18

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: Designing hardware and firmware with Microchip PIC<sup>®</sup> 32MX processors by use of a simple example. Students will design their prototype, write the code, and debug their project on a PIC32MX Curiosity Development Board DM320103 that they will leave with.

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

## OUTLINE:

- Introduction to the PIC32MX processor
- Introduction to the PIC32MX Curiosity Development Board DM320103
- Definition of the project problem
- Breaking down the problem and selection of processor
- Hardware design using a PIC32MX processor
- Firmware design with XC32 C compiler
- Learning to program the part using the Curiosity Development Board DM320103
- Debugging your project using the MPLAB<sup>®</sup> X simulator and Curiosity

## MATERIALS PROVIDED:

- PIC32MX Curiosity Development Board DM320103
- PDF of presentation

## REQUIRED:

- Your computer with MPLAB<sup>®</sup> X v 4.05 or later and XC32 v 1.44 or later installed.
- Payment 2 weeks in advance

FEE: \$399.00 per person.

ACCEPTED PAYMENT: Check, PayPal, or Credit Card.

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