

PWM Drawer Project

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Introduction

Pulse Width Modulation (PWM) is a project about determination of the width of the pulse created by the microcontroller's timer using input capture and data is being displayed via LCD.

Components:

① Microcontroller (atmega 32)

② LCD

Methods

Pulse Width Modulation Process

The pulse is being created internally from the microcontroller itself starting from high to low.

Capturing The Modulation

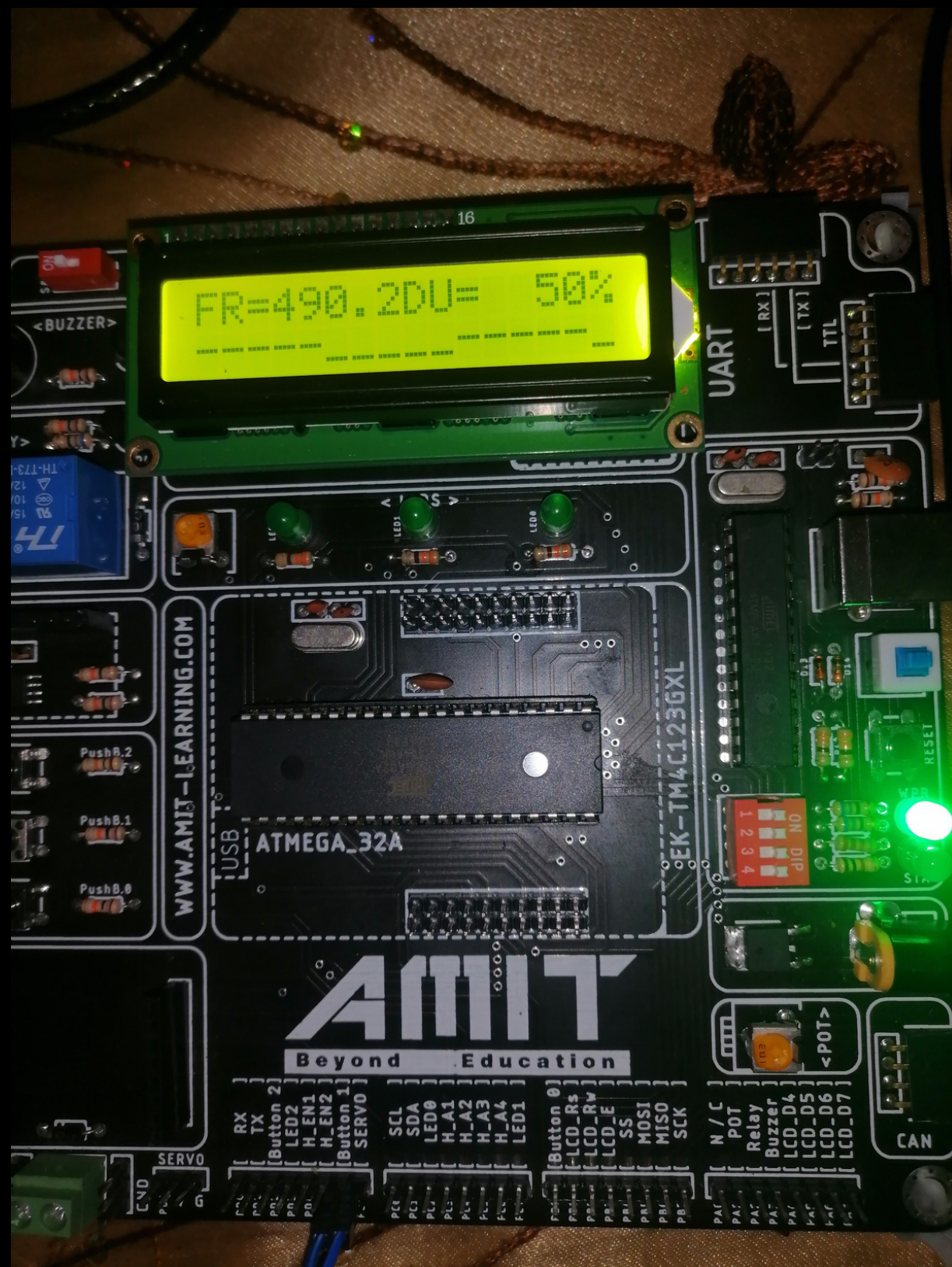
The modulation is being captured by the input capture within the microcontroller itself.

Displaying Data

The data is being displayed on the LCD in form of a square wave representing the pulse width and frequency & duty cycle while the frequency always remains constant.

Prototype

Presentation of the prototype
using 50% duty cycle.



Thank you!