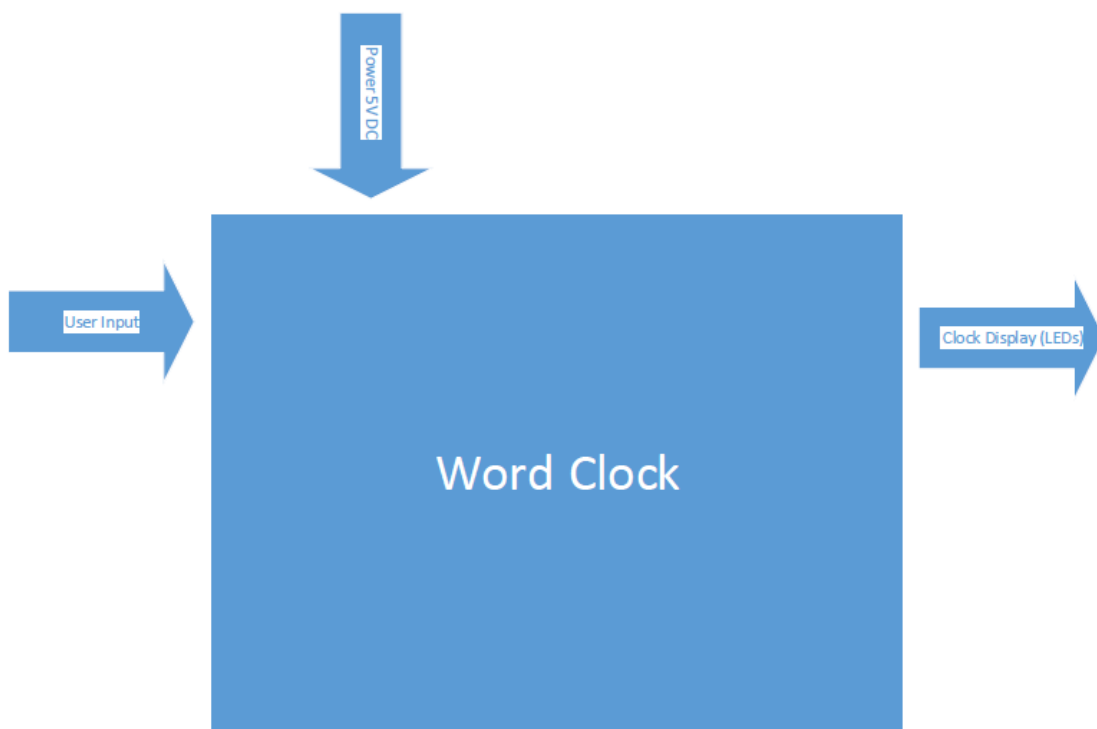


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ECE 411

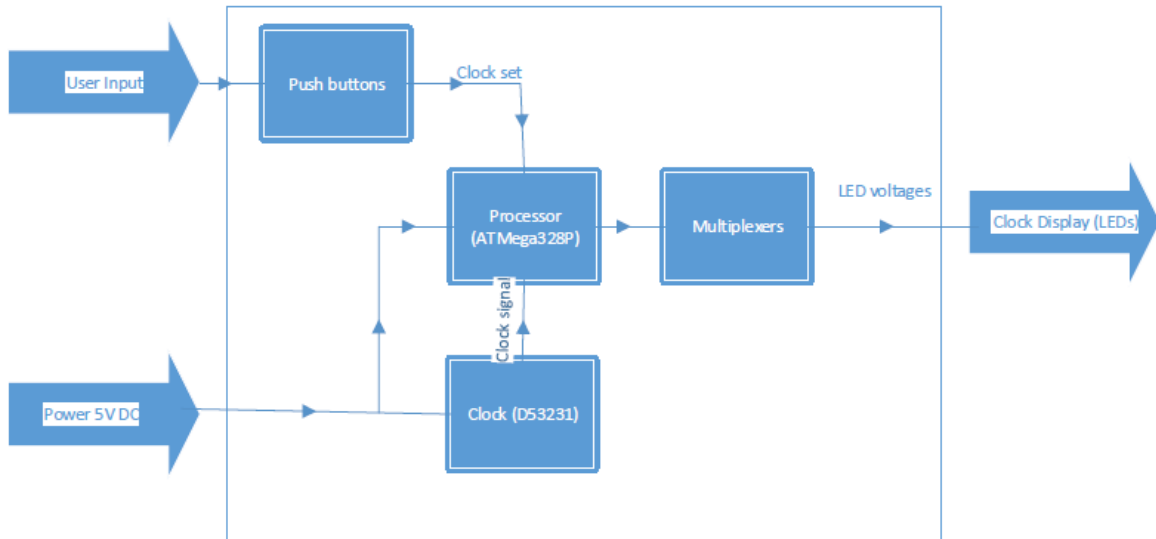
29 November 2018

### Level 0 block diagram for Word Clock module



Module	Word Clock
Inputs	Power: 5V DC User control
Outputs	Display: LEDs
Functionality	User sets clock via pushbutton input. Word clock outputs LED voltages, which have been demultiplexed. LEDs are displayed through laser-cut acrylic so that words are shown representing the time.

### Level 1 block diagram for Word Clock module



Module	Word Clock
Inputs	Power: 5V DC User control: two push buttons, A and B
Outputs	Display: LEDs (demultiplexed LED voltages)
Functionality	Push buttons are used to set clock. Clock provides signal to processor. Processor produces multiplexed signal, which must be demultiplexed to drive the LED display. Each LED represents a word, which is displayed through laser-cut acrylic to produce the word visually.