

## Baseline and Mid-Range PIC (6 – 14 pin) Training and Development Board

### *Construction and Operation Guide*

This PIC development board is designed as a training environment specifically for use with the introductory Gooligum baseline, mid-range and enhanced mid-range PIC tutorials<sup>1</sup>.

The tutorials were originally written for Microchip's Low Pin Count Demo Board, which supports 8-, 14- and 20-pin PICs, can be used easily with a PICKit 2 or PICKit 3 programmer, and provides four LEDs, a pushbutton switch and a potentiometer. As such, it's a good, simple introductory board. However, it does not support the 6-pin 10F PICs and its LEDs cannot be used directly with 8-pin PICs.

More significantly, many of the Gooligum baseline and mid-range lessons require the use of parts not included on that board, such as photocells, crystal-driven oscillator circuits, and 7-segment LED displays. Although it is possible to build all of these circuits on a breadboard, connected to the Low Pin Count Demo Board, it is a little cumbersome – especially for some of the more complex circuits.

This training board was developed to make it easy to follow the Gooligum baseline, mid-range and introductory enhanced mid-range lessons. It works with a PICKit 2 or PICKit 3 programmer, and supports all 8- and 14-pin baseline, mid-range and enhanced mid-range PICs, as well as all 6-pin 10F devices (in an 8-pin DIP package). It is fully configurable using the provided jumpers, and comes with all of the hardware needed for every introductory lesson, including all the required PICs.

It features:

- Support for all 6-pin, 8-pin and 14-pin baseline, mid-range and enhanced mid-range PICs (all 10F, 12F and 14-pin 16F devices)
- 2 × pushbuttons (including 'MCLR')
  - optional external pull-up resistor on each pushbutton
- 9 × LEDs
  - an LED is available on each 6-pin and 8-pin PIC output pin, plus pins RC0 – RC3
- 3 × 7-segment LED displays
  - configurable as a single digit or multiplexed digits
- External 32.768 kHz oscillator
  - can be configured to drive processor clock, Timer0 or Timer1
- 4 MHz resonator, 32.768 kHz crystal and resistor/capacitor for use with processor oscillator
  - 32.768 kHz crystal also available for Timer1 oscillator
- Potentiometer and 2 × photocells for use as analog inputs in comparator and ADC lessons
- Variable frequency oscillator for frequency and pulse width measurement lessons
- Piezo sounder, to demonstrate PWM outputs
- Standard ICSP connector for use with PICKit 2 or PICKit 3 programmer

<sup>1</sup> All baseline, mid-range, and introductory enhanced mid-range assembler and C lessons.

# Gooligum Electronics Midrange

**Lingsheng Yao**



## **Gooligum Electronics Midrange:**

## The Enigmatic Realm of **Gooligum Electronics Midrange**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing short of extraordinary. Within the captivating pages of **Gooligum Electronics Midrange** a literary masterpiece penned by a renowned author, readers attempt a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of those that partake in its reading experience.

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