Pocket Science Lab V5
Pin Layout Diagram

Label	Description
MCL	Master Clear Pin
VDD	Voltage Suppy Pin (+3.3 V)
GND	Ground Pin (0 V)
PGD	Programmer Data Pin
PGC	Programmer Clock Pin
PGM	Programmer Mode Pin
GND	Ground Pin (0 V)
ESP	ESP Programmer Pin
RXD	UART Rx Pin for ESP and Microprocessor
TXD	UART Tx Pin for ESP and Microprocessor
GND	Ground Pin (0 V)
VDD	Voltage Supply Pin (+3.3 V)
VCC	Voltage Supply Pin (+5 V)
GND	Ground Pin (0 V)
SI1	Wave Generator Pin 1 (5 Hz ~ 5 kHz)
GND	Ground Pin (0 V)
SI2	Wave Generator Pin 2 (5Hz ~ 5kHz)
GND	Ground Pin (0 V)
SQ1	PWM Generator Pin 1 (32 MHz)
GND	Ground Pin (0 V)
SQ2	PWM Generator Pin 2 (32 MHz)
GND	Ground Pin (0 V)
SQ3	PWM Generator Pin 3 (32 MHz)
GND	Ground Pin (0 V)
SQ4	PWM Generator Pin 4 (32 MHz)
LA1	Logic Analyzer Pin 1
LA2	Logic Analyzer Pin 2
LA3	Logic Analyzer Pin 3
LA4	Logic Analyzer Pin 4

Label	Description
STA	Bluetooth Status Pin
RXD	UART Rx Pin for Bluetooth
TXD	UART Tx Pin for Bluetooth
GND	Ground Pin (0V)
VCC	Voltage Supply Pin (+5 V)
ENA	Bluetooth Module Enable Pin
GND	Ground Pin (0 V)
VDD	Voltage Supply Pin (+3.3 V)
SCL	I²C Serial Clock Pin
SDA	I2C Serial Data Pin
GND	Ground Pin (0 V)
VDD	Voltage Supply Pin (+3.3 V)
SCL	I2C Serial Clock Pin
SDA	I2C Serial Data Pin
GND	Ground Pin (0 V)
PCS	Programmable Current Source (3.3 mA)
GND	Ground Pin (0 V)
PV3	Programmable Voltage Source (0 - 3 V)
GND	Ground Pin (0 V)
PV2	Programmable Voltage Source (± 3.3 V)
GND	Ground Pin (0 V)
PV1	Programmable Voltage Source (± 5.0 V)

Label	Description
LA1	Logic Analyzer Pin 1
LA2	Logic Analyzer Pin 2
LA3	Logic Analyzer Pin 3
LA4	Logic Analyzer Pin 4
AC1	Channel for AC Waves (Oscilloscope)
CH1	Channel 1 (Oscilloscope)
CH2	Channel 2 (Oscilloscope)
CH3	Channel 3 (Oscilloscope)
CHG	Channel 3 Gain Control Pin
MIC	Microphone (+) Pin
FRQ	Frequency Counter Pin
CAP	Capacitance Measurement Pin
RES	Resistance Measurement Pin
VOL	Voltmeter Pin

Legend

PIN	Description of Pin
PIN	Power Pins
PIN	Signal Pins
PIN	Function Pins
PIN	Programmable Power Pins
PIN	Special Function Pins
PIN	Oscilloscope Pins
PIN	ESP Pins

! Double check connections when using PIN pins