NodeMCU Development Board Pinout Configuration

Pin	Name	Description
Power	Micro-USB, 3.3V,	Micro-USB: NodeMCU can be powered through the USB port
	GND, Vin	3.3V: Regulated 3.3V can be supplied to this pin to power the board
		GND: Ground pins
		Vin: External Power Supply
Control	EN, RST	The pin and the button resets the microcontroller
Pins		
Analog Pin	A0	Used to measure analog voltage in the range of 0-3.3V
GPIO Pins	GPIO1 to GPIO16	NodeMCU has 16 general purpose input-output pins on its board
SPI Pins	SD1, CMD, SD0, CLK	NodeMCU has four pins available for SPI communication.
UART Pins	TXD0, RXD0, TXD2,	NodeMCU has two UART interfaces, UARTO (RXDO & TXDO) and UART1
	RXD2	(RXD1 & TXD1). UART1 is used to upload the firmware/program.
I2C Pins		NodeMCU has I2C functionality support but due to the internal functionality
		of these pins, you have to find which pin is I2C.

NodeMCU ESP8266 Specifications & Features

- · Microcontroller: Tensilica 32-bit RISC CPU Xtensa LX106
- Operating Voltage: 3.3V
- · Input Voltage: 7-12V
- · Digital I/O Pins (DIO): 16
- · Analog Input Pins (ADC): 1
- · UARTs: 1
- SPIs: 1
- · I2Cs: 1
- · Flash Memory: 4 MB
- · SRAM: 64 KB
- · Clock Speed: 80 MHz
- · USB-TTL based on CP2102 is included onboard, Enabling Plug n Play
- PCB Antenna
- · Small Sized module to fit smartly inside your IoT projects

GPIOs 4 and 5 are the only ones that are always high impedance. All others do have internal pull-ups or are even driven low/high during boot.

GPIOs 3, 12, 13 and 14 pulled HIGH during boot. Their actual state does not influence the boot process.

GPIOs 0, 1, 2 and 15 are pulled HIGH during boot and also driven LOW for short periods.

The device will not boot if 0, 1 or 2 is driven LOW during start-up.

GPIO 16 is driven HIGH during boot, don't short to GND.



