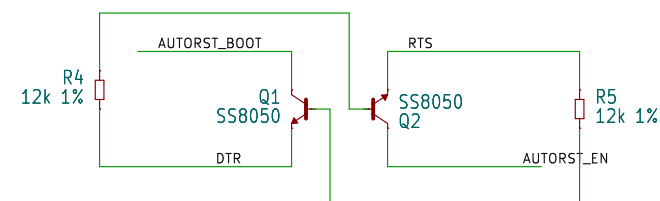
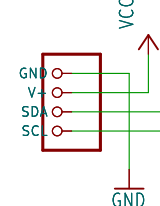
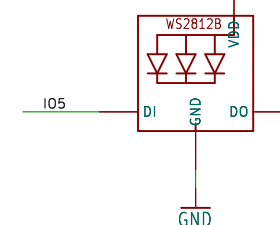


Cut solder jumpers to turn this into an ESP-PROG compatible programmer (isolates the on-board ESP module and chip from CH343 UART)

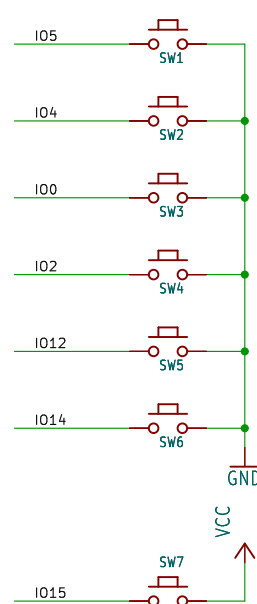
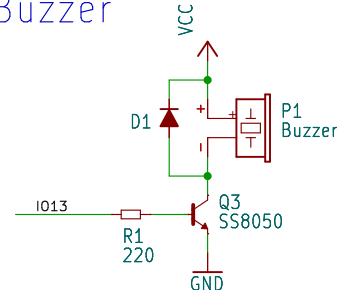
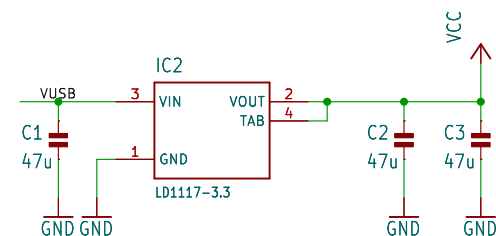


DTR	RTS	->	Q1	Q2	EN	BOOT
1	1		on	on	1	1
0	0		off	off	1	1
1	0		on	off	0	1
0	1		off	on	1	0

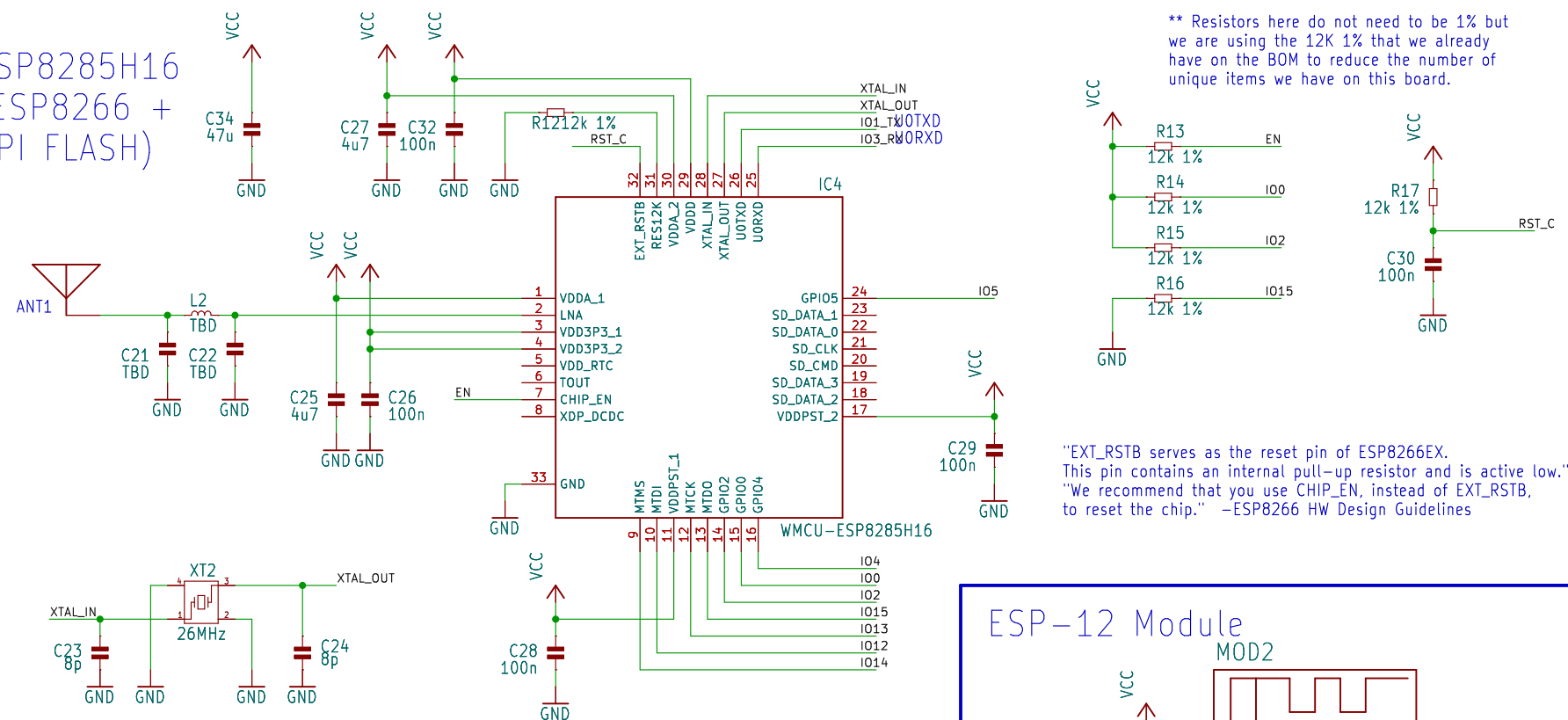
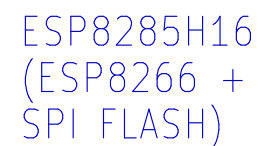


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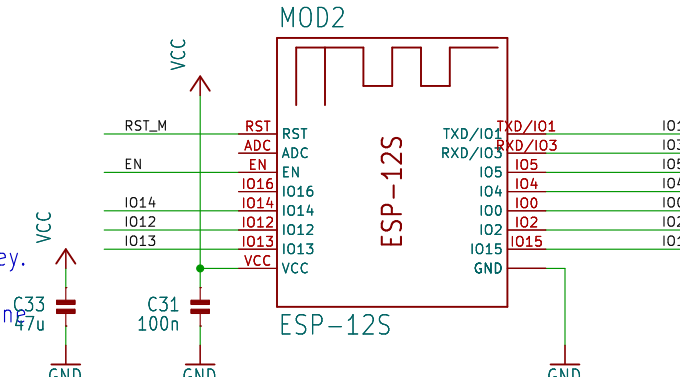
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I015 is a bootstrap pin that needs to be pulled high at boot, hence the reason why it is different.



"EXT\_RSTB serves as the reset pin of ESP8266EX.  
This pin contains an internal pull-up resistor and is active low."  
"We recommend that you use CHIP\_EN, instead of EXT\_RSTB,  
to reset the chip." –ESP8266 HW Design Guidelines



This board is designed to be used as part of a solder paste workshop at OSHCamp 2023, also acting as a name badge, a generic sensor device using the qwiic/ stemma qt compatible I2C port and the Tasmota firmware and even a little piece of art, courtesy of OSHUG co-founder Paul Downey. You can also use it as a comically large USB-UART / ESP-Prog adapter for your other designs- You'll notice both an ESP8266 chip (actually an ESP8285H16) and an ESP-12 module here, only one should be populated at any given time as they are connected to the same pins. They exist side by side to offer a choice of difficulty level for the workshop: If you're just starting out, put a module down or if you're feeling adventures go for the QFN chip and a bunch more 0402 passives. Production files for fully assembled boards is included in the prod/ folder, should you wish to order your own boards before/after the event.

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