

The MCU controls the charging.

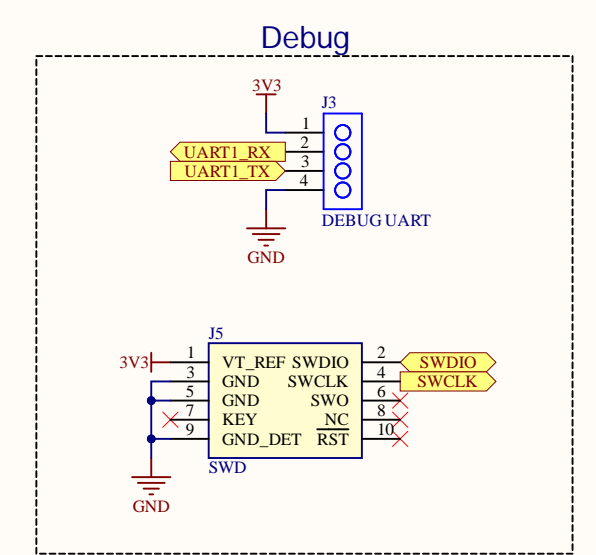
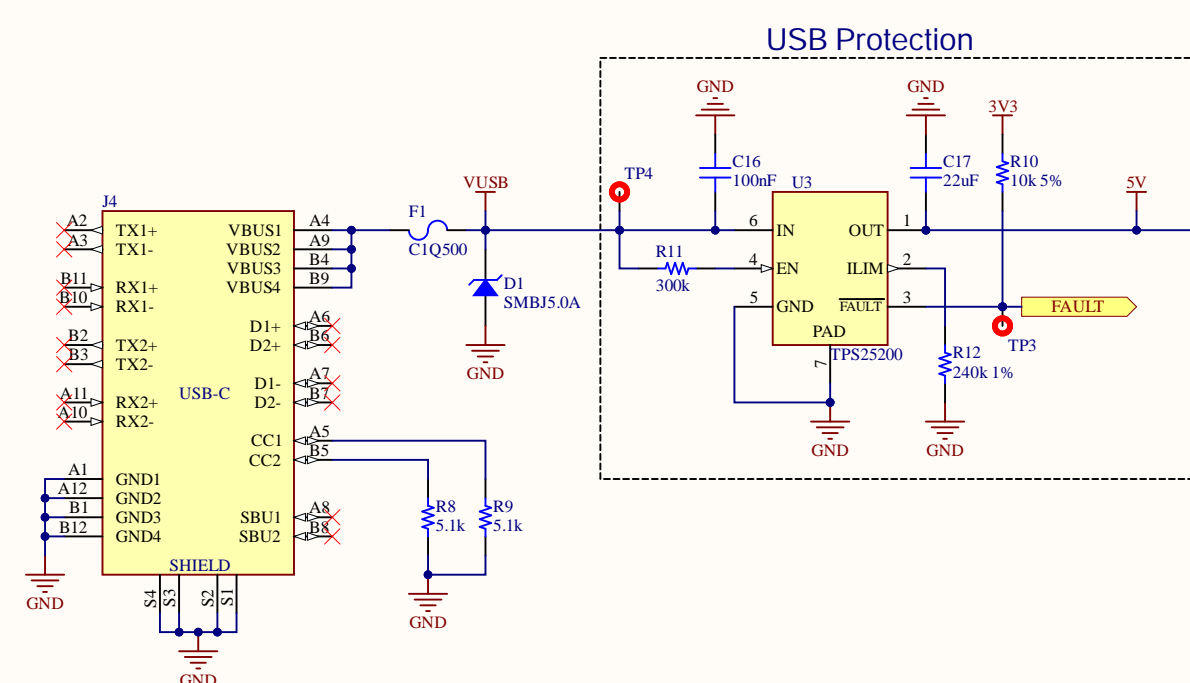
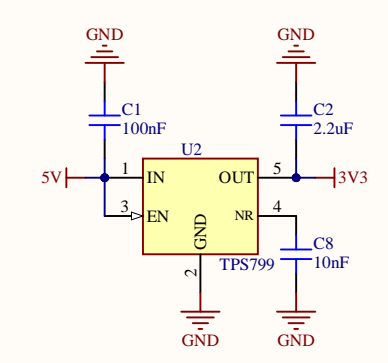
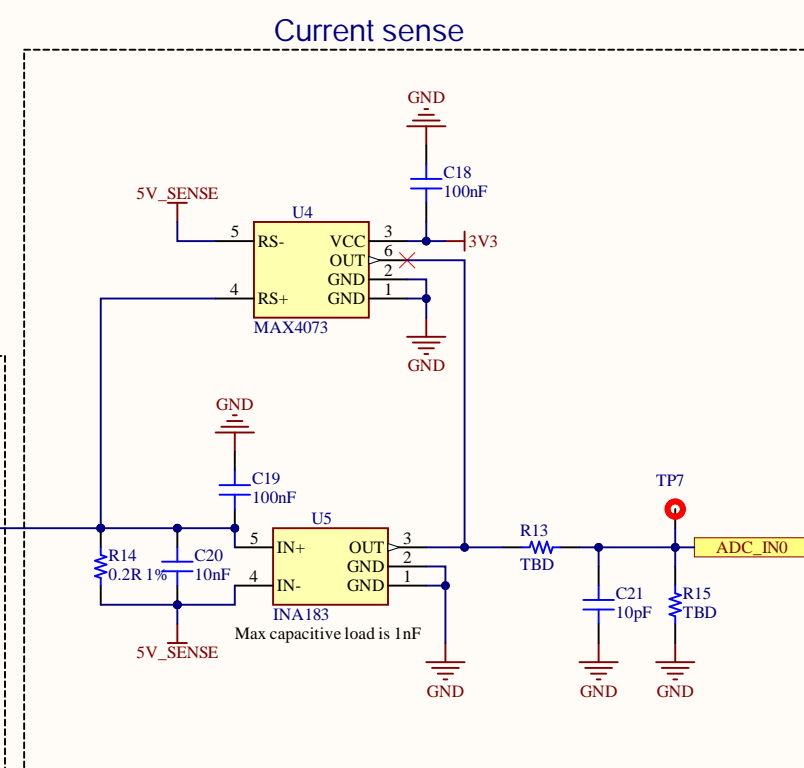
The inputs are:

- measuring the 5V line
- measuring the current to DC/DC (which is effectively coil current)

The outputs are:

- enabling DC/DC
- setting DC/DC output voltage (which is coil voltage)
- setting PWM (which affects coil current and induced voltage)
- setting LED status

The MCU can measure when charging is finishing as the load on the receiver side would drop. The MCU can also measure the presence of the ring (or some other receiving LC circuit) by measuring the current pumped to the coil. When the load is very load that indicates no receiver present and the MCU can enter sleep mode.



Title		
Wireless Ring Charger 04/2021		
Size	Number	Revision
A3		A
Date:	6/09/2025	Sheet of
File:	main.SchDoc	Drawn By: Mikolaj Stawiski