# Programming

* OpenOCD not recognised? Launch VScode through vscode.bat in wacky racers.
* Did you run openOCD?
* Maybe try run bootloader.

# Board operation

* Board not working like it should? Check pins in the configuration file target.h are correct.
* Make sure you use the correct target (hat vs racer)
* Make sure the correct silk screen label is used. Eg Level shifters silk screens underneath on hat.
* Never copy code! Be especially careful if copying C++ code to C as functions with the same name can do different things.

## Power

* ST-Link does not provide power to anything other than the chip
* USB does not provide LED Tape power

## Strange things that are normal

* Unconfigured LED’s will glow dim

# Nothings working

* Did you put it on metal and short pins?
* Power supply is on?

# Future thing to do

* Don’t send ascii characters for radio, send raw bytes which need to be decoded instead, much less data to send.