… the AWESOME
Build FOOF Rubber Band Gun SW
https://github.com/Mark-MDO47/RubberBandGun
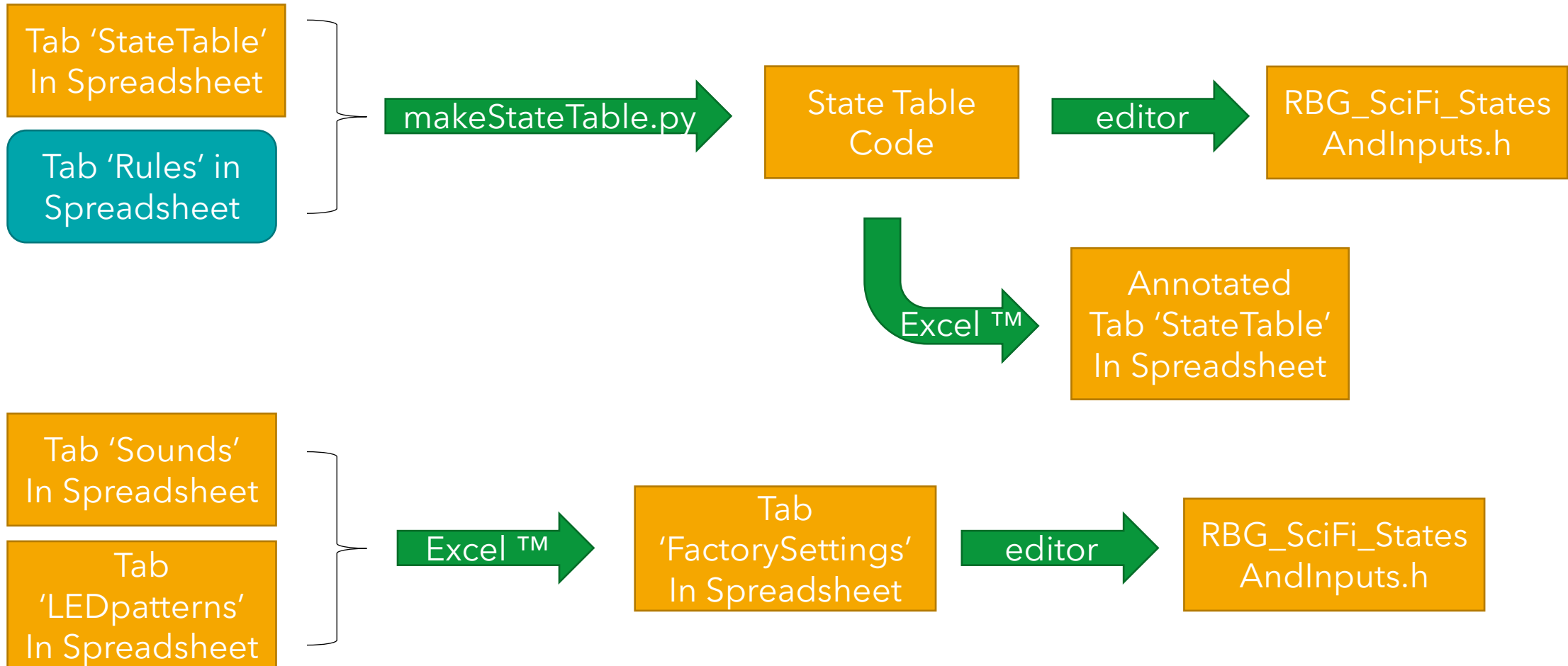
FOOF Rubber Band Gun Operation
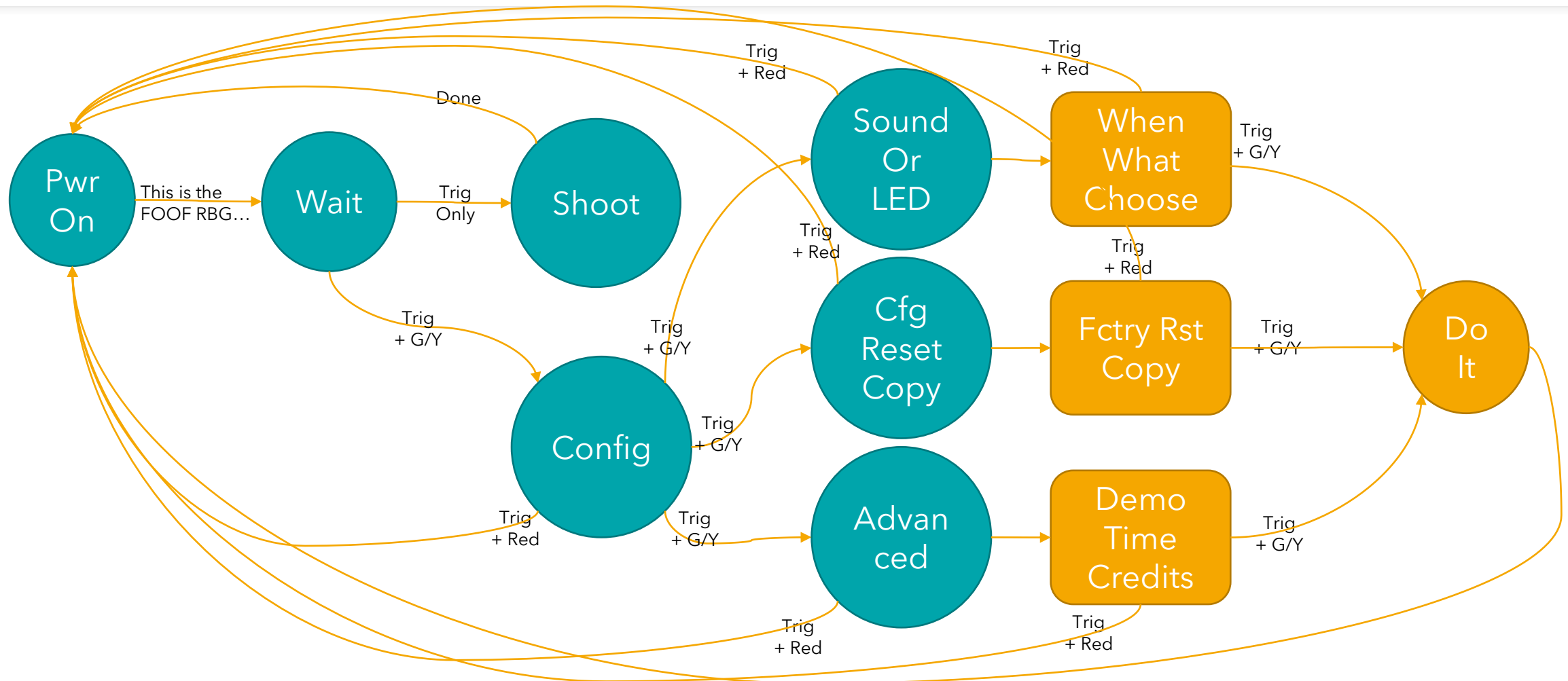
FOOF Rubber Band Gun
State Machine and Factory Settings

Tab 'StateTable' In Spreadsheet

Tab 'Rules' in Spreadsheet

→ makeStateTable.py →

State Table Code

→ editor →

RBG_SciFi_States AndInputs.h

→ Excel ™ →

Annotated Tab 'StateTable' In Spreadsheet

Tab 'Sounds' In Spreadsheet

Tab 'LEDpatterns' In Spreadsheet

→ Excel ™ →

Tab 'FactorySettings' In Spreadsheet

→ editor →

RBG_SciFi_States AndInputs.h

FOOF Rubber Band Gun
eSpeak and Sound Files

Reformat SD Card

Tab 'Sounds' In Spreadsheet

RobotSounds.py →

eSpeak script

bash.exe and eSpeak

copyem.py

*.wav Files

← Audacity

raw_*.wav Files

docopyem script

bash.exe →

Insert SD Card in YX5200
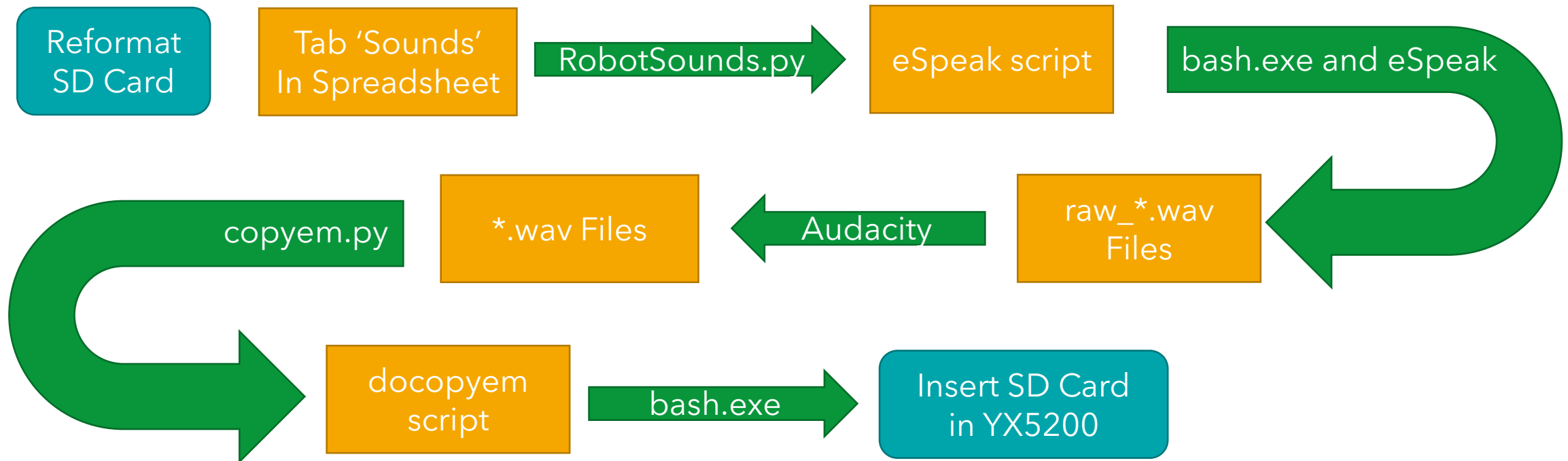
FOOF Rubber Band Gun Debug Tools

RBG_SciFi_StatesAndInputs.h

RBG_SciFi.ino

→ VS_debuggable.py →

*.cpp code

→ Visual Studio 2019 Console App →

Debug State Transitions

Run RBG with Debug Options

→ Copy "COM" output To debug2.txt →

Tab 'debugging' In Spreadsheet "grep" statements

→ bash.exe →

Tab 'debugging' In Spreadsheet

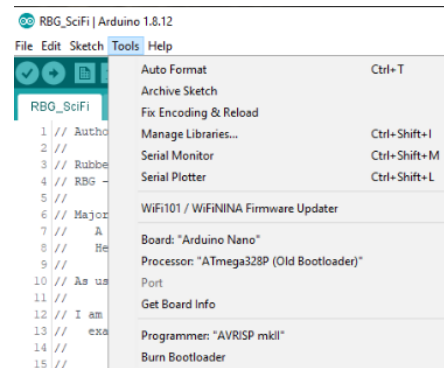Sort, Remove dups, Debug
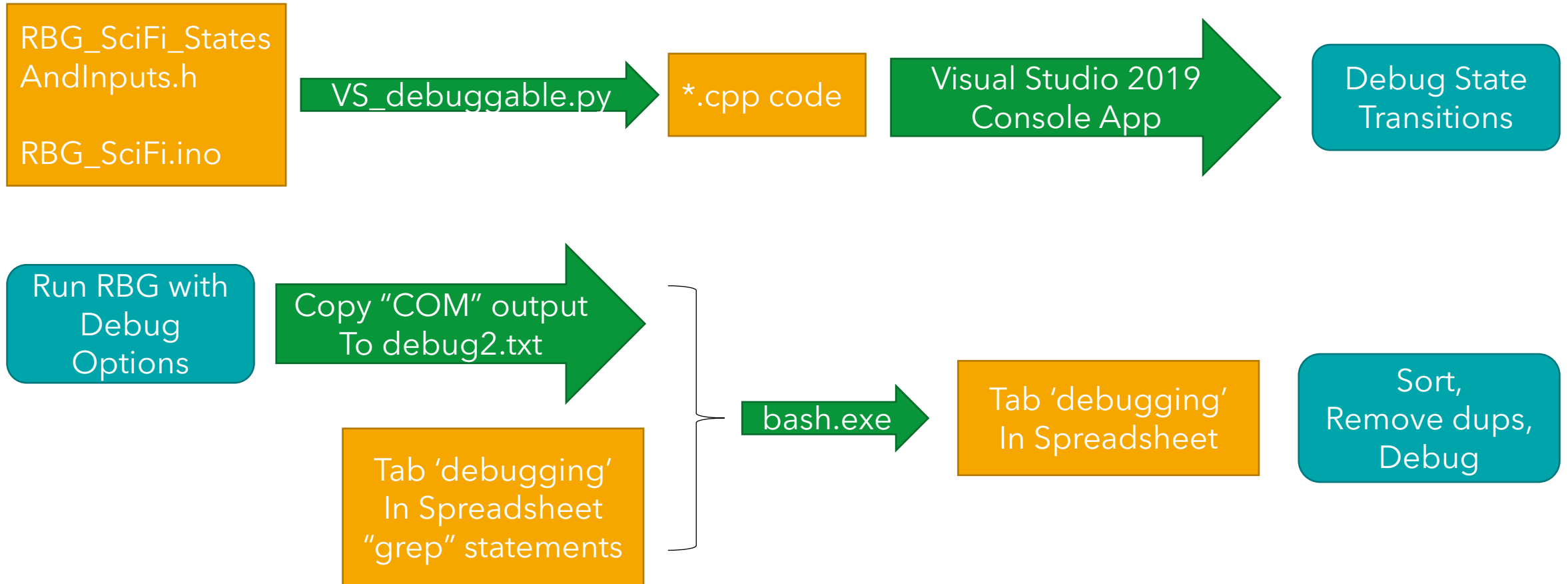
FOOF Rubber Band Gun
Arduino Setup

- Board "Arduino Nano"

- Processor "ATmega328P (Old Bootloader)"

- Programmer "AVRISP mkII"

FOOF Rubber Band Gun
Programming Arduino for Bluetooth

Connections to program the KCX-BT-EMITTER

- See RubberBandGun_wiring.pdf

- See ProgrammingArduino_SerialMonitor_SampleOutput.pdf

- See ProgrammingArduino.ino