The FoneAstra project is based off of an Arduino sketch, using the ATMEGA328 chip. The board is configured to supply an 8MHz clock.

To build the project .. .

set the Board = "Arudino Pro or Pro Mini"
set the Processor = "ATmega328 (3.3V, 8MHz)
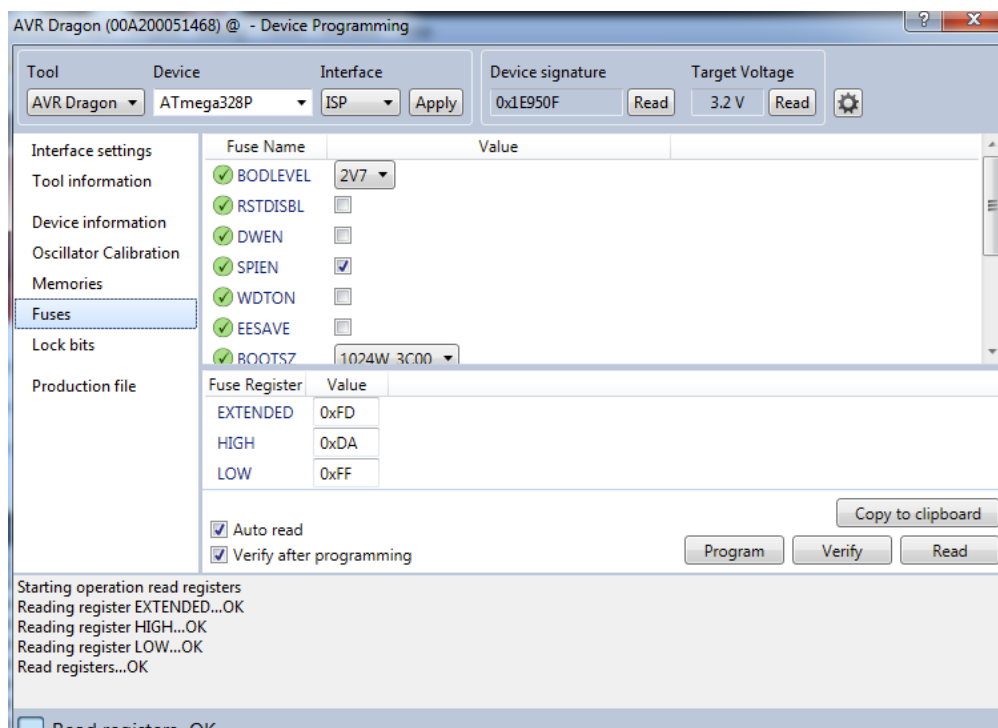
Compile

To program the Part…

Open Atmel Studio 6.2
Open the programmer

Select the AVR Dragon as the programmer
Apply and connect to the board. The Device signature should be 0x1E950F and the Target Voltage should be 3.2V

Set the Fuses of the part as follows (0xFD, 0xDA, 0xFF).

Switch to the production File section, and select the .elf file generated by Arduino. This is hard to find and on windows is usually in a path similar to the following.

C:\Users\<username>\AppData\Local\Temp\build8431070681977821059.tmp\foneastra_1_5_
bringup.cpp.elf