**To create a new Project in Atmel Studio**

From file select new project

Select GCC C ASF Board Project

Fill in:

* Project Name
* Location
* Solution create new solution/add to solution
* Solution Name

In Atmel studio you can have several solutions on the same project. Not quite sure on the advantage of that but I guess in some projects you may want to have the access to let’s say to the UART or the ADC separate...

Select your device, in this case ATSAM3X8E

Select the Arduino Due/X board. At this selection i can see a possible selection for a board template which possibly will let you create a template for your own board.

**To setup Console UART in the Atmel Studio**

This will allow for the use of the normal standard printf of stdio by directing printf commands to the console UART.

From the ASF menu click ASF Wizard

**To add freeRTOS to your project in Atmel Studio**

Go the ASF menu and select ASF Wizard

Type in freeRTOS to search for that module

Select freeRTOS mini Real-Time Kernel (service)

Then click add and click apply. It will come up with all the files it will add click ok.

Accept the freeRTOS license.

As the freeRTOS is not made by Atmel all files will be under the ASF third party folder as CMSIS.

Also the freeRTOS config file will be added to the config folder.