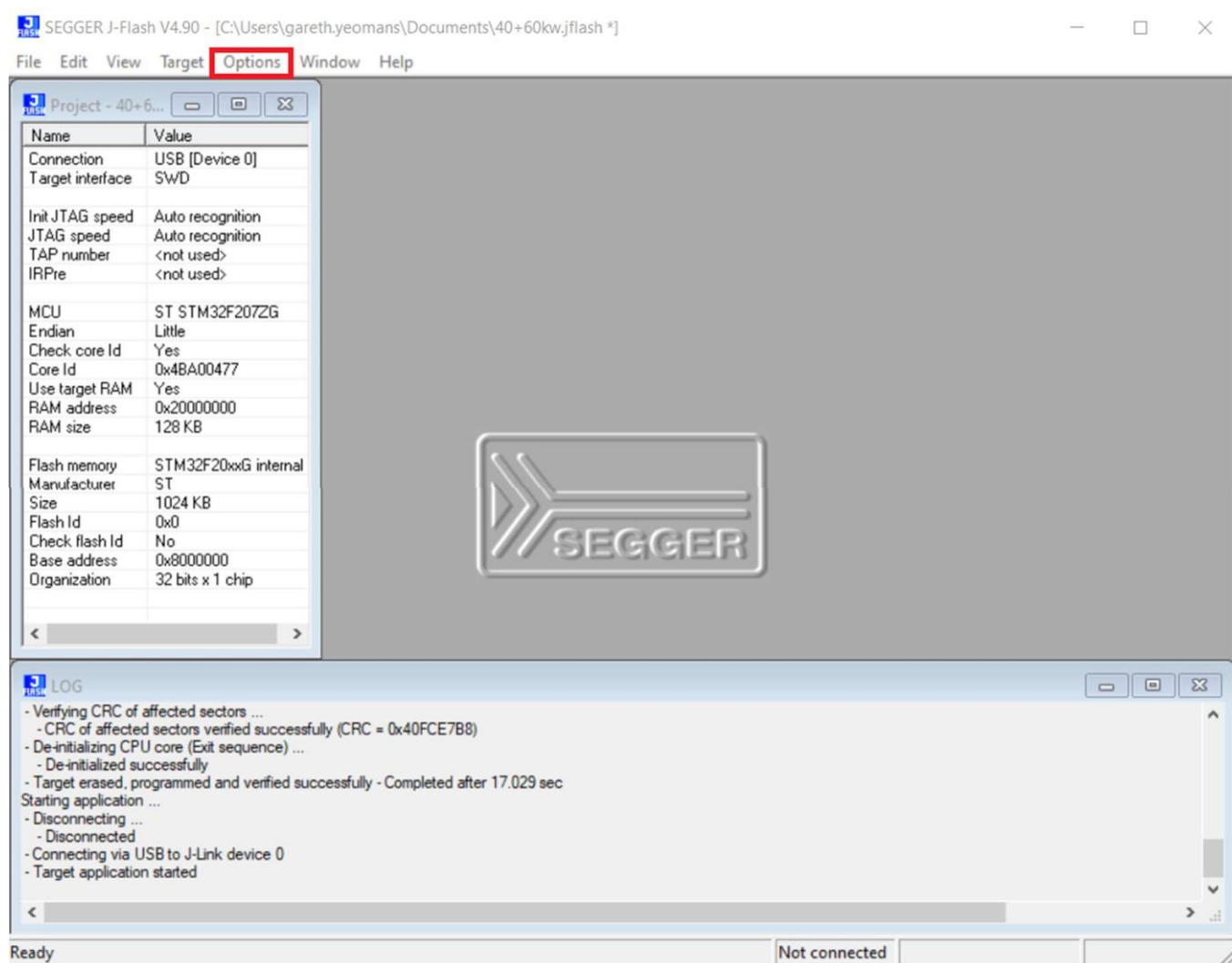
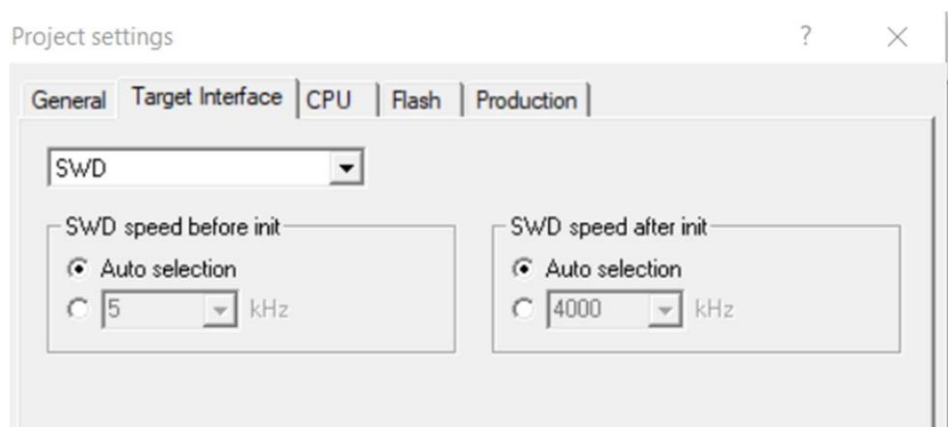


How to Upload Firmware to the EV Charger:

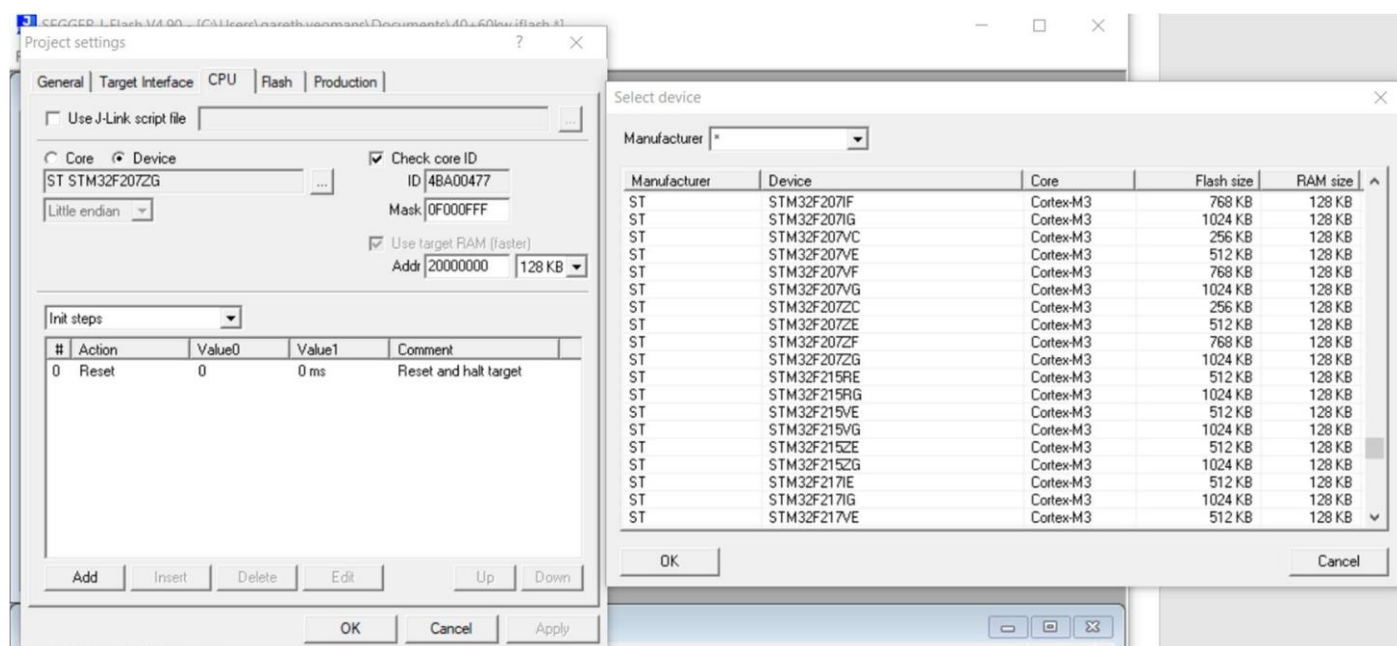
Step 1 Open J-Flash Software and set up the 'Project Settings' via 'Options'



Select the Target interface and from the drop-down menu select SWD and tick both boxes for Auto selection:

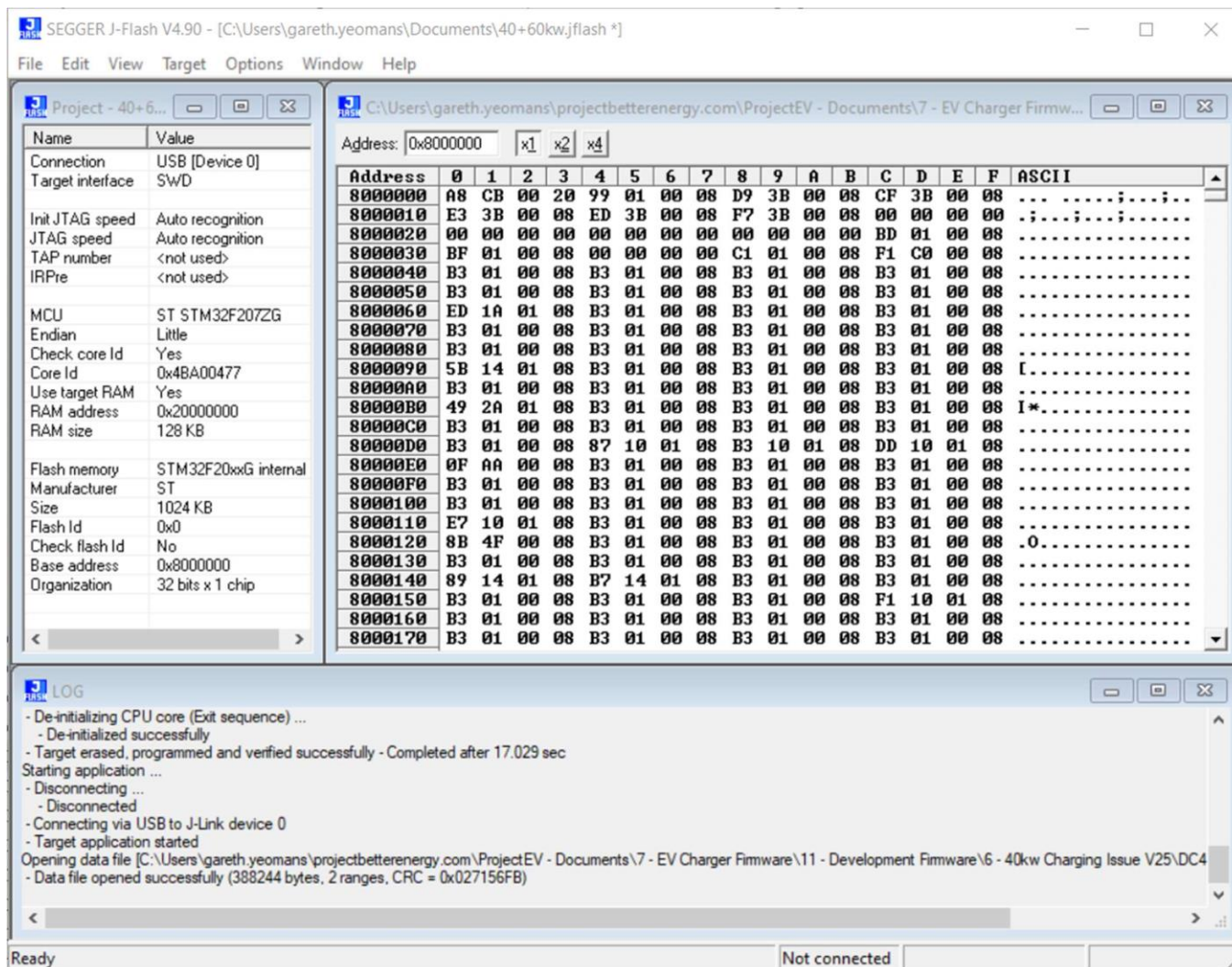


Select CPU tick 'Device' and select from the drop-down ST STM32F207ZG



Once done select OK at the bottom of the page to upload the project settings - once set up and completed you can save project settings to re-open at any time with all the same settings

Once you have the project settings set then drop and drag the relevant file into the blank space



The screenshot displays the SEGGER J-Flash V4.90 software interface. The main window is titled "SEGGER J-Flash V4.90 - [C:\Users\garth.yeomans\Documents\40+60kw.jflash *]". It features a menu bar (File, Edit, View, Target, Options, Window, Help) and a toolbar. The interface is divided into three main sections:

- Left Panel (Project Settings):** A table with "Name" and "Value" columns.

Name	Value
Connection	USB [Device 0]
Target interface	SWD
Init JTAG speed	Auto recognition
JTAG speed	Auto recognition
TAP number	<not used>
IRPre	<not used>
MCU	ST STM32F207ZG
Endian	Little
Check core Id	Yes
Core Id	0x4BA00477
Use target RAM	Yes
RAM address	0x20000000
RAM size	128 KB
Flash memory	STM32F20xxG internal
Manufacturer	ST
Size	1024 KB
Flash Id	0x0
Check flash Id	No
Base address	0x8000000
Organization	32 bits x 1 chip
- Right Panel (Memory Map):** A table showing memory addresses and their corresponding values. The "Address" column is set to "0x8000000". The table has columns for Address, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, A, B, C, D, E, F, and ASCII.

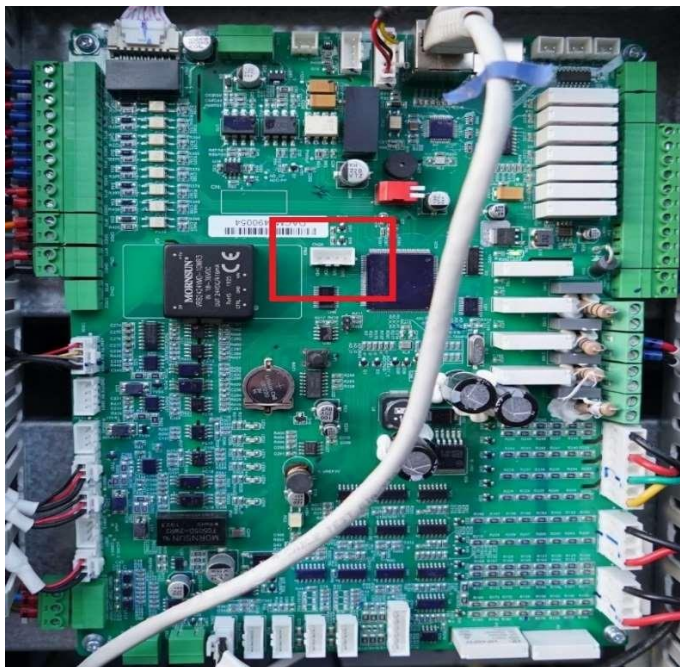
Address	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F	ASCII
80000000	A8	CB	00	20	99	01	00	08	D9	3B	00	08	CF	3B	00	08	...
80000010	E3	3B	00	08	ED	3B	00	08	F7	3B	00	08	00	00	00	00	;
80000020	00	00	00	00	00	00	00	00	00	00	00	00	BD	01	00	08	.
80000030	BF	01	00	08	00	00	00	00	C1	01	00	08	F1	C0	00	08	.
80000040	B3	01	00	08	B3	01	00	08	B3	01	00	08	B3	01	00	08	.
80000050	B3	01	00	08	B3	01	00	08	B3	01	00	08	B3	01	00	08	.
80000060	ED	1A	01	08	B3	01	00	08	B3	01	00	08	B3	01	00	08	.
80000070	B3	01	00	08	B3	01	00	08	B3	01	00	08	B3	01	00	08	.
80000080	B3	01	00	08	B3	01	00	08	B3	01	00	08	B3	01	00	08	.
80000090	5B	14	01	08	B3	01	00	08	B3	01	00	08	B3	01	00	08	[
800000A0	B3	01	00	08	B3	01	00	08	B3	01	00	08	B3	01	00	08	.
800000B0	49	2A	01	08	B3	01	00	08	B3	01	00	08	B3	01	00	08	I*
800000C0	B3	01	00	08	B3	01	00	08	B3	01	00	08	B3	01	00	08	.
800000D0	B3	01	00	08	87	10	01	08	B3	10	01	08	DD	10	01	08	.
800000E0	0F	AA	00	08	B3	01	00	08	B3	01	00	08	B3	01	00	08	.
800000F0	B3	01	00	08	B3	01	00	08	B3	01	00	08	B3	01	00	08	.
80000100	B3	01	00	08	B3	01	00	08	B3	01	00	08	B3	01	00	08	.
80000110	E7	10	01	08	B3	01	00	08	B3	01	00	08	B3	01	00	08	.
80000120	8B	4F	00	08	B3	01	00	08	B3	01	00	08	B3	01	00	08	.0
80000130	B3	01	00	08	B3	01	00	08	B3	01	00	08	B3	01	00	08	.
80000140	89	14	01	08	B7	14	01	08	B3	01	00	08	B3	01	00	08	.
80000150	B3	01	00	08	B3	01	00	08	B3	01	00	08	F1	10	01	08	.
80000160	B3	01	00	08	B3	01	00	08	B3	01	00	08	B3	01	00	08	.
80000170	B3	01	00	08	B3	01	00	08	B3	01	00	08	B3	01	00	08	.
- Bottom Panel (Log):** A text area showing the execution log.


```

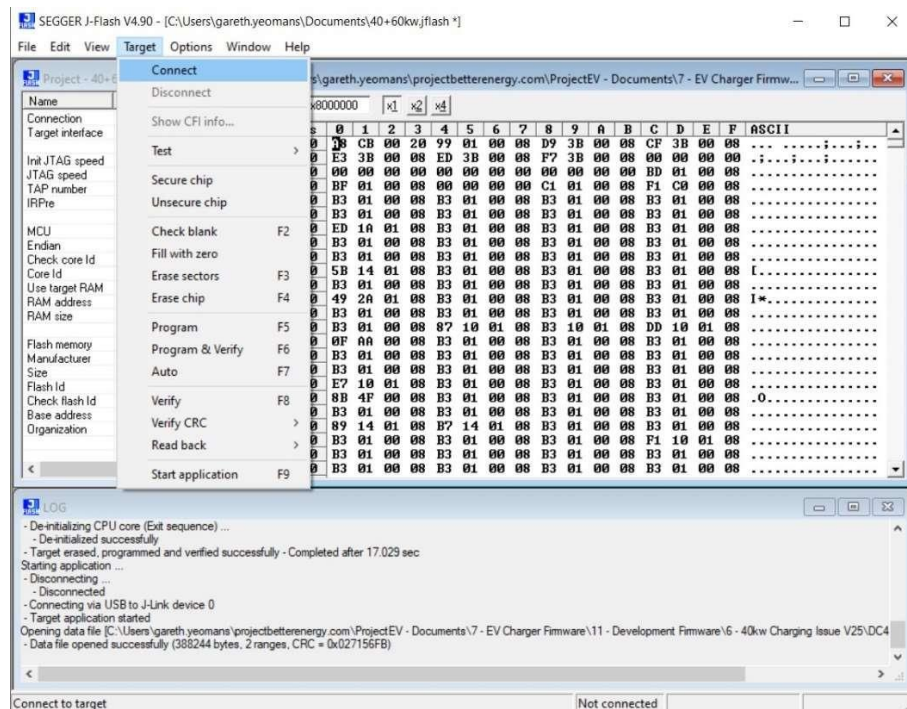
- De-initializing CPU core (Exit sequence) ...
- De-initialized successfully
- Target erased, programmed and verified successfully - Completed after 17.029 sec
Starting application ...
- Disconnecting ...
- Disconnected
- Connecting via USB to J-Link device 0
- Target application started
Opening data file [C:\Users\garth.yeomans\projectbetterenergy.com\ProjectEV - Documents\7 - EV Charger Firmware\11 - Development Firmware\6 - 40kw Charging Issue V25\DC4
- Data file opened successfully (388244 bytes, 2 ranges, CRC = 0x027156FB)
      
```

The status bar at the bottom indicates "Ready" and "Not connected".

Now you have the file loaded power down the charger - plug the J Link into the laptop and into the port on the charger highlighted this will supply power to the PCB and you will hear an audible beep

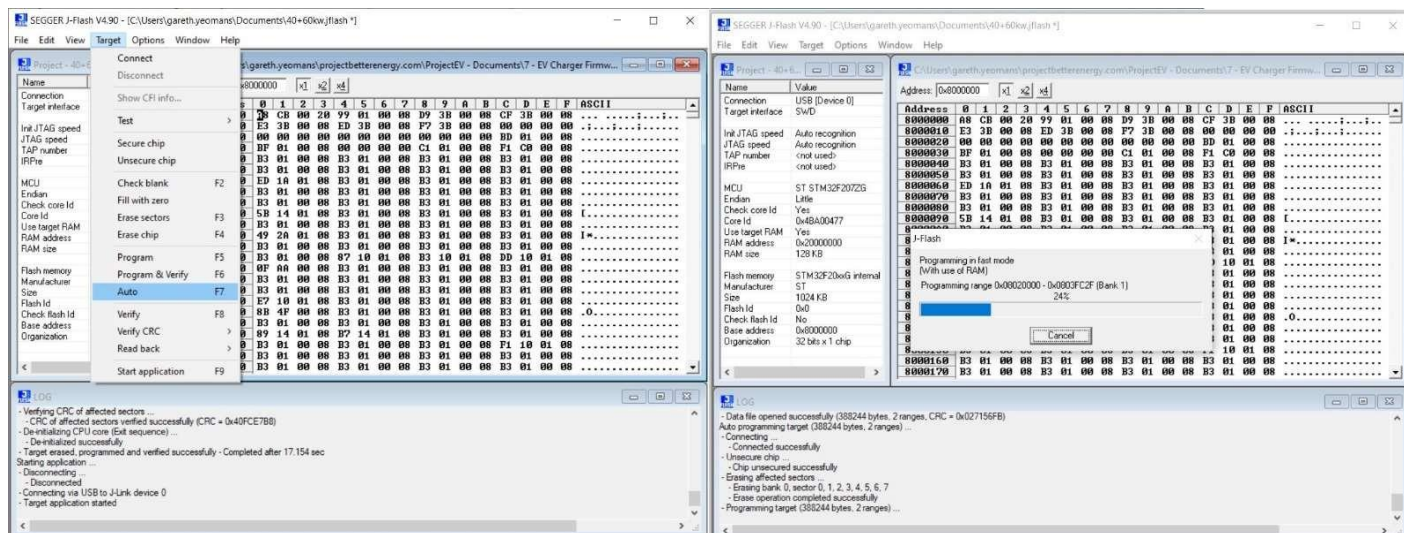


From here go to the J-flash software select Target < Connect

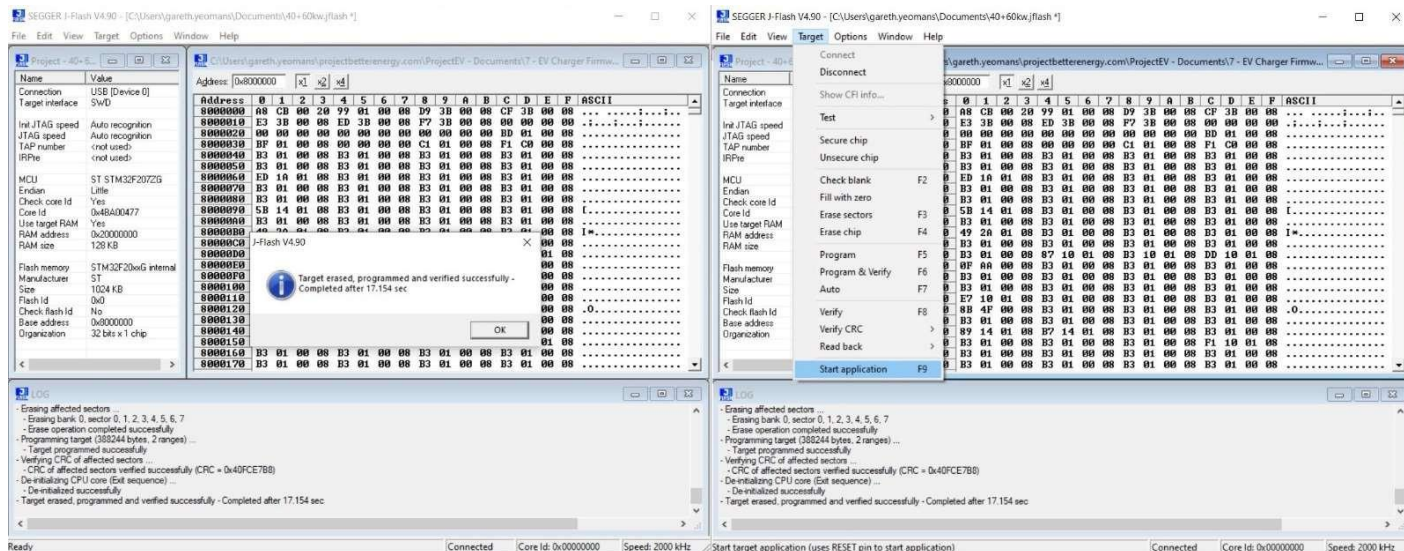


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After you have connected select Target < Auto



Once programming is complete select 'OK' and then Target < Start Application



Once the Application has been started you will hear another audible beep indicating the firmware update has been completed - at this stage disconnect the J-Link and power the unit up.

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