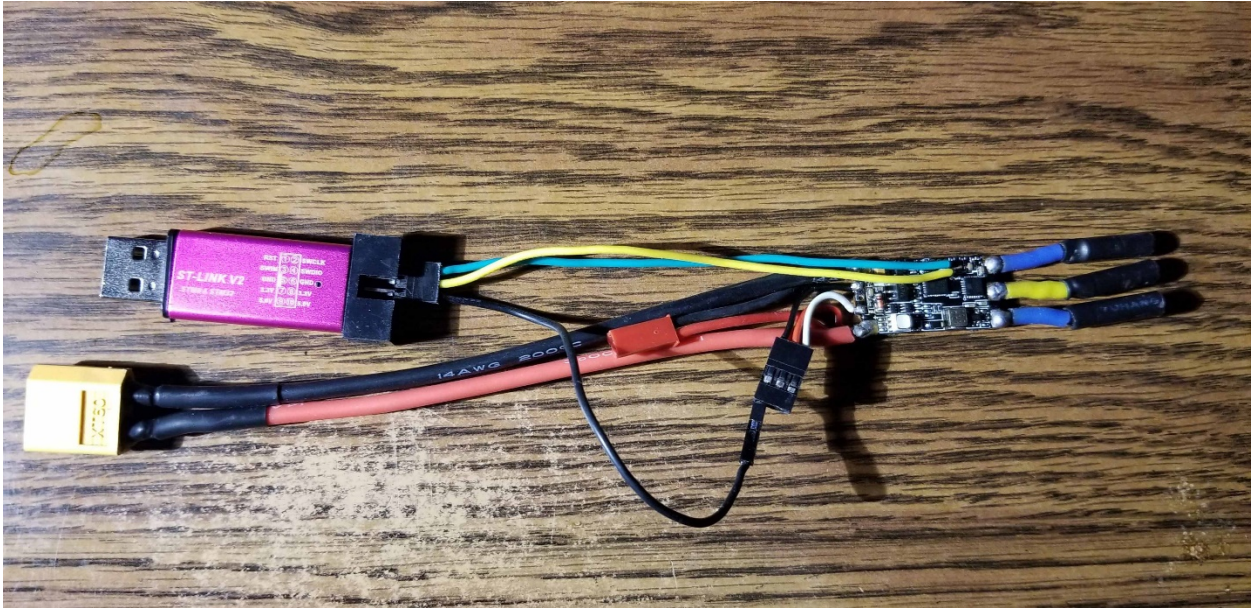
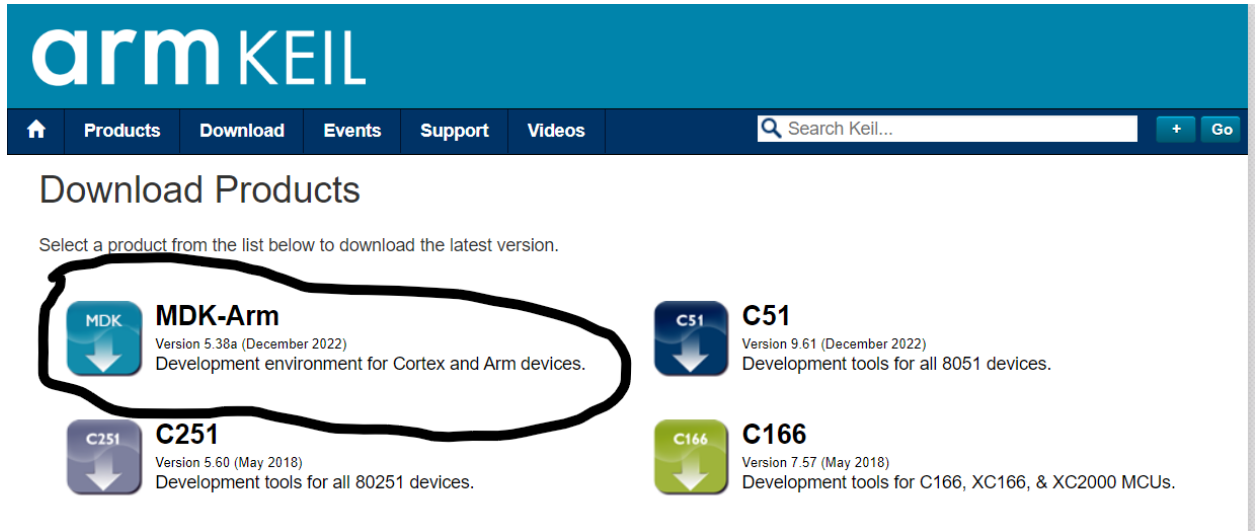


Step to flash AM32 to Artery Tek MCU using ST-Link/V2

1. Solder wire as usual to SWD and SWC.



2. Download Keil Software at www.keil.com. Choose MDK-ARM







arm KEIL

Products Download Events Support Videos Search Keil... + Go

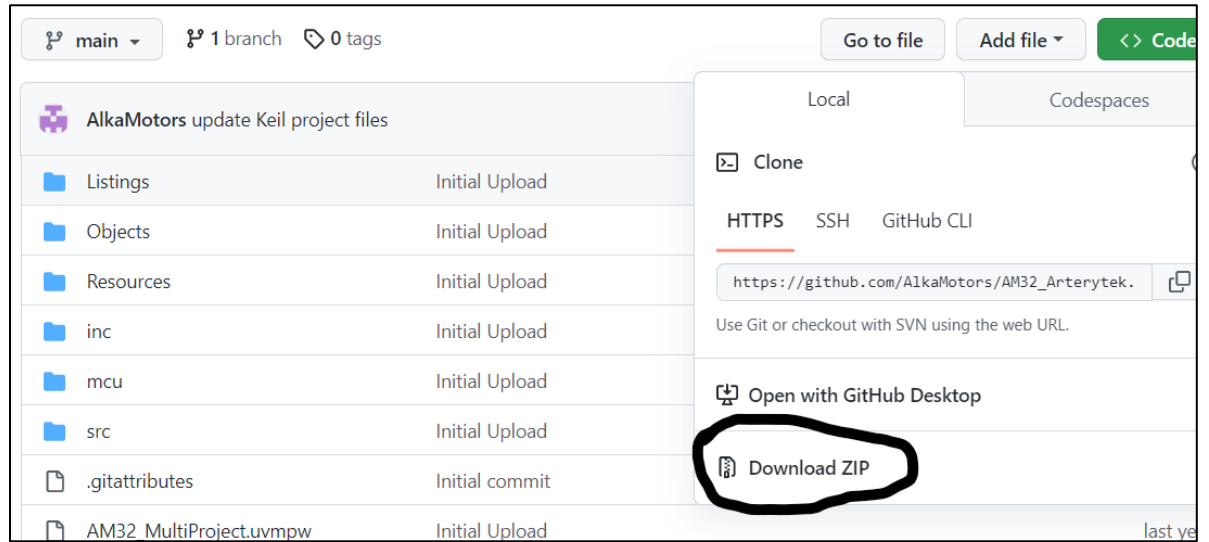
Download Products

Select a product from the list below to download the latest version.

	MDK-Arm Version 5.38a (December 2022) Development environment for Cortex and Arm devices.		C51 Version 9.61 (December 2022) Development tools for all 8051 devices.
	C251 Version 5.60 (May 2018) Development tools for all 80251 devices.		C166 Version 7.57 (May 2018) Development tools for C166, XC166, & XC2000 MCUs.

3. Download Bootloader for Artery Tek from Alka Motor Github.

a. https://github.com/AlkaMotors/AM32_Arterytek



b. Unzip the files.

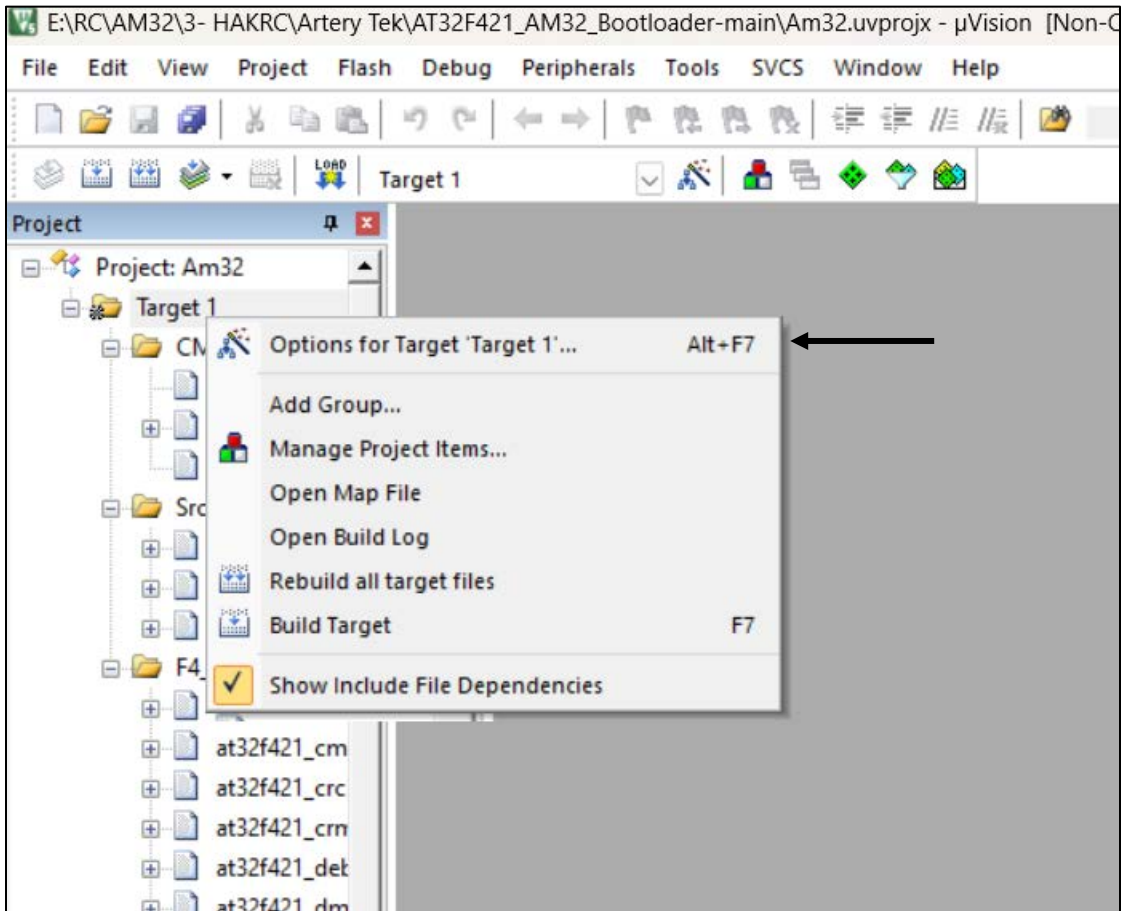
4. Unpack the ArteryTek.AT32F421.

Am32	7/2/2023 1:24 AM	µVision5 Project	20 KB
ArteryTek.AT32F421_DFP.2.0.5 ←	11/1/2023 6:40 AM	uVision Software P...	189 KB
EventRecorderStub.scvd	11/1/2023 6:40 AM	SCVD File	1 KB

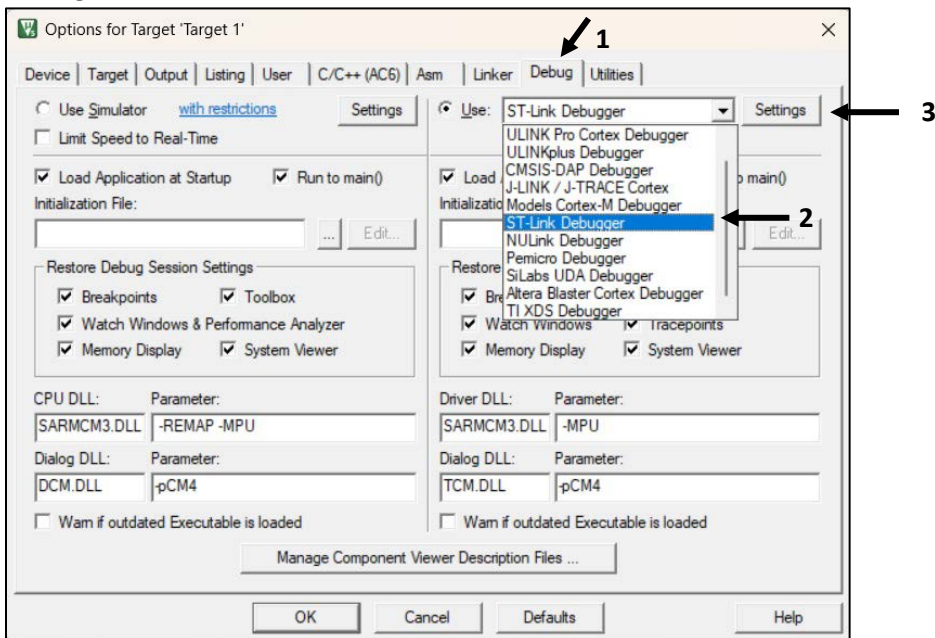
5. Click AM32 Project file

Am32 ←	7/2/2023 1:24 AM	µVision5 Project	20 KB
ArteryTek.AT32F421_DFP.2.0.5	11/1/2023 6:40 AM	uVision Software P...	189 KB
EventRecorderStub.scvd	11/1/2023 6:40 AM	SCVD File	1 KB

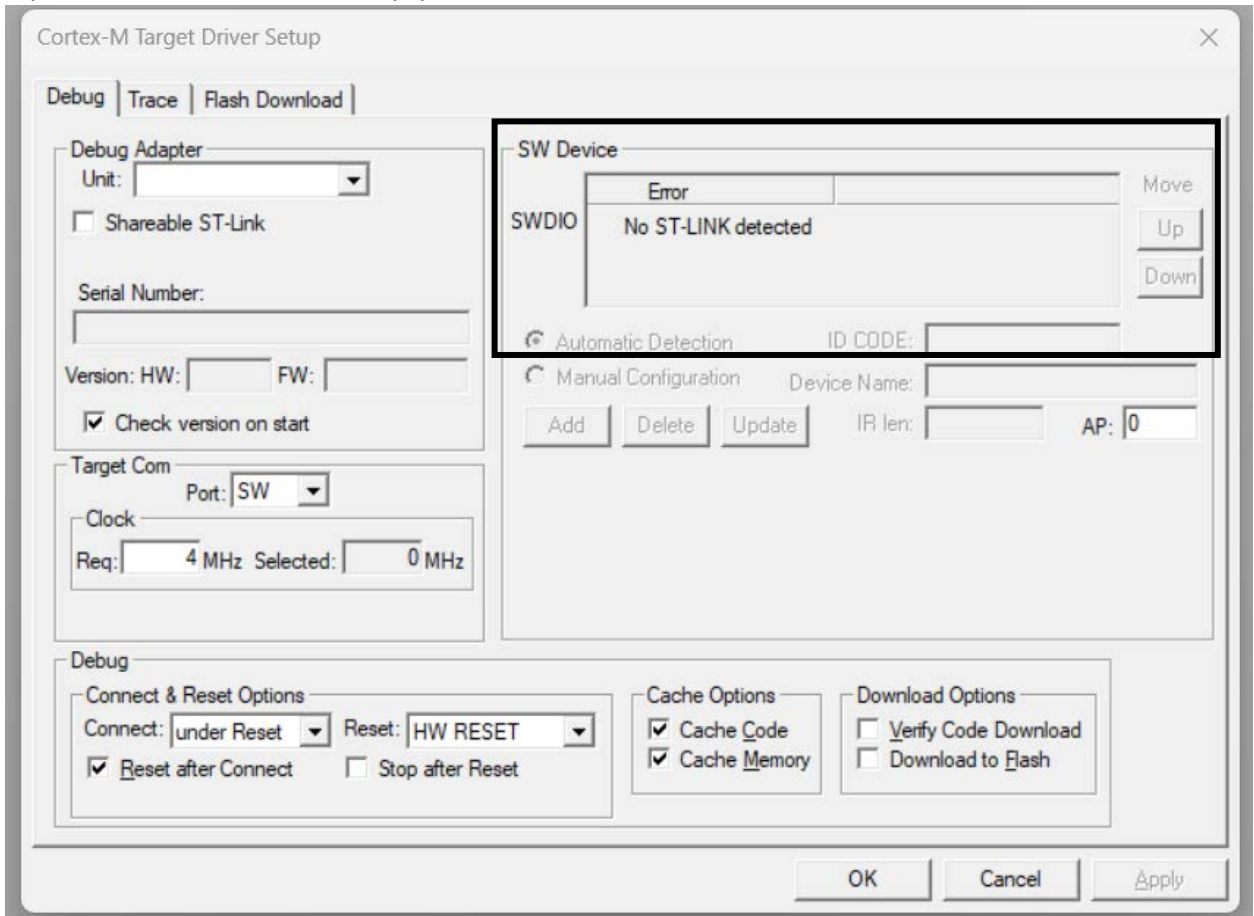
6. Once Open, right click on “Target 1” and select “Option for Target “Target 1” ...”



7. Select “Debug” tab and select “ST-Link Debugger” from drop-down menu. After that, click Settings.

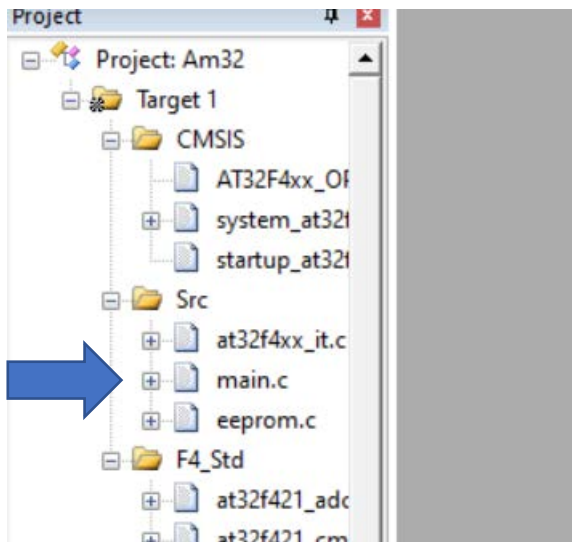


8. If you connect the wires correctly, you can see the information of the connected device here.



9. From here you may follow the instruction from YouTube by Alka Motors (<https://www.youtube.com/watch?v=7mrTUn59pDw>)

10. Pay attention on the bootloader. Double Click on the main.c file.



11. Go to Line 22 and Line 23. Make changes to this line according to your device.

```
21  
22 #define USE_PB4  
23 // #define USE_PA2  
24  
25 /* Includes -----*/
```

If your device use PB4 bootloader

```
21  
22 // #define USE_PB4  
23 #define USE_PA2  
24  
25 /* Includes -----*/  
26 #include <stdbool.h>
```

If your device use PA2 bootloader.

12. Then click "F7" on your keyboard.

13. Finally click "F8" on your keyboard.

14. Bootloader already uploaded to your device. Proceed to flash the firmware using ESC Config as per YouTube.