S5 Pro - How to update the firmware from Chrome

First with your Shapeoko plugged in and turned on put the controller in DFU mode.

- 1. Press and hold the Bootloader button.
- 2. Press and release the Reset button.
- 3. Release the Bootloader button.



Check you see the ESP-32 interface in Device Manger

Now Download Zadig from https://zadig.akeo.ie/

Open the program

- 4. In Zadig, pull down the device selection box.
- 5. Select the ESP32-S2.
- 6. Press the Install Driver button.

Bevice Manager - □ File Action View Help	×
✓ Image: DESKTOP-7H7IL7P > Image: Audio inputs and outputs > Image: Biometric devices > Image: Computer > Image: Disk drives > Image: Disk drives > Image: Disk drives > Image: Disk drives	- · ×
DVD/CD-ROM drives Muman Interface Devices Musc and other pointing devices Musc and other pointing devices	✓ □Edit
> Indectate of the pointing devices Driver (NONE) WinUSB (v6.1.7600.16385) > Pointer devices USB ID 303A 0002 02 WCID ² WCID ² Install Driver ▼	WinUSB (libusb) libusb-win32 libusbK WinUSB (Microsoft)
✓ Ports (COM & LP1) USB Serial Device (COM6) Tim Print queues	Zadig 2.7.765
 Printers Processors Sensors Software devices Sound, video and game controllers Storage controllers System devices Universal Serial Bus controllers 	,

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S5 F	Zadig Device Options Help		×	
5 Pro	ESP32-S2 (Interface 2) Driver (NONE)	Installing Driver	✓ □ Edit More Information	
	USB ID 303A 0002	U2 S Install Driver	<u>WinUSB (libusb)</u> libusb-win32 libusbK WinUSB (Microsoft)	
	nstalling driver. Please wait		Zadig 2.7.765	

Zadig	_		
Device Optio Driver Installation			
ESP32-S2 (Int The driver was installed successfully.		✓ ☐ Edit	:
Driver WinL USB ID 303A WCID ²	Close libusbK WinUSB	nformation (libusb) in32 (Microsoft)	
Driver Installation: SUCCESS	Z	adig 2.7.765	

Click Close, then exit the program with the X in the upper right corner.

go to the website -

https://my.carbide3d.com/so5-dfu/

Scroll down and click "connect"

A list of devices will pop up, select the one that says ESP32-s2 by clicking on the letters "esp32"



Now click Connect in the dialog

my.carbide3d.com/so5-dfu/	
my carbide3d com wants to connect	
ECR22 C2 Daired	1. Connect Shapeoko 5 Pro.
	2. Press and hold BOOTLOADER button.
Virtual Printer (Aerox WorkCentre 0515 (12:a7:00) - Pax)	3. Press and release RESET button.
Samson weteor wic	4. Release BOOTLOADER button.
Virtual Mouse	5. Click the "Connect" button below.
Virtual Printer (Xerox WorkCentre 6515 (12:a7:dd))	 Chrome will popup a window asking permission to connect to devices. Select "ESP32- S2".
	7. Click Connect.
	8. If Detatch DFU button is active, click it and repeat from step 5 above.
	9. Click the "Download" button below.
Connect Cancel	10. When transfer is complete, disconnect Shapeoko and power off for one minute.
	11. Power on Shapeoko 5 Pro, and use normally.
	NotFoundError: Failed to execute 'requestDevice' on 'USB': No device selected.
	Connect to Shapeoko
	Connect
	Device Information
	Runtime mode
	Detach DFU
	Firmware Download
	Download

If you have Detach DFU - Click it, if not proceed to the second screen below

- 3. Press and release RESET button.
- 4. Release BOOTLOADER button.
- 5. Click the "Connect" button below.
- Chrome will popup a window asking permission to connect to devices. Select "ESP32-S2".
- 7. Click Connect.
- 8. If Detatch DFU button is active, click it and repeat from step 5 above.
- 9. Click the "Download" button below.
- 10. When transfer is complete, disconnect Shapeoko and power off for one minute.
- 11. Power on Shapeoko 5 Pro, and use normally.

Connect to Shapeoko Disconnect Device Information Name: ESP32-S2 MFG: Espressif Serial: 0 Runtime: [303a:0002] cfg=1, intf=2, alt=0, name="ESP32-S2" serial="0" Runtime mode Detach DFU Firmware Download Download

If you detached , click connect and repeat the steps to connect from the dialog, you will get this screen this time, or yo are already on this screen. Press Download

- 3. Press and release **RESET** button.
- 4. Release **BOOTLOADER** button.
- 5. Click the "Connect" button below.
- Chrome will popup a window asking permission to connect to devices. Select "ESP32-S2".
- 7. Click Connect.
- 8. If Detatch DFU button is active, click it and repeat from step 5 above.
- 9. Click the "Download" button below.
- 10. When transfer is complete, disconnect Shapeoko and power off for one minute.
- 11. Power on Shapeoko 5 Pro, and use normally.

Disconnect			
Device Information			
Device information			
Name: ESP32-S2			
MFG: Espressif			
Serial: 0			
DFU: [303a:0002] c	g=1, intf=2, alt=0, nam	e="ESP32-S2" serial=	·''0''
Runtime mode			
Detach DFU			
Firmware Downloa	1		
Download			

The update begins like this

- 5. Click the "Connect" button below.
- Chrome will popup a window asking permission to connect to devices. Select "ESP32-S2".
- 7. Click Connect.
- 8. If Detatch DFU button is active, click it and repeat from step 5 above.
- 9. Click the "Download" button below.
- 10. When transfer is complete, disconnect Shapeoko and power off for one minute.
- 11. Power on Shapeoko 5 Pro, and use normally.

-Connect	to	Sh	ap	eo	ko
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Disconnect

-Device Information-

Name: ESP32-S2

MFG: Espressif

Serial: 0

DFU: [303a:0002] cfg=1, intf=2, alt=0, name="ESP32-S2" serial="0"

Detach DFU

Firmware Download

Download

Copying data from browser to DFU device

and ends like this

- 9. Click the "Download" button below.
- 10. When transfer is complete, disconnect Shapeoko and power off for one minute.
- 11. Power on Shapeoko 5 Pro, and use normally.

Connect to Shapeoko Disconnect Device Information Name: ESP32-S2 MFG: Espressif Serial: 0 DFU: [303a:0002] cfg=1, intf=2, alt=0, name="ESP32-S2" serial="0"

-Runtime mode-

Detach DFU

Firmware Download

Download

Copying data from browser to DFU device

Wrote 694176 bytes

Manifesting new firmware

Error during reset for manifestation: NetworkError: Failed to execute 'reset' on 'USBDevice': Unable to reset the device.

That's it, power it off , unplug the USB, wait a minute, power it up, plug the USB in and open carbide Motion

Enjoy!