Poznámky k instalaci SW pro KPE2024 - pro Boot image pro A3-115 a A3-412 Soubory jsou https://embedded.fel.cvut.cz/instkpe2024 J. Fischer 2.7.2024 Instalovat Cube programmer 2.13.0.

Instalovat Arduino 2.3.2, arduino-ide_2.3.2_Windows_64bit.msi - instalační (generuje i soubor pro odinstalování). K dispozici jsou také alternativy- soubory

arduino-ide_2.3.2_Windows_64bit.exe - instalační

arduino-ide_2.3.2_Windows_64bit.zip (asi? portable verze - bez instalace)

Spustit instalaci a pak průběžně **povolit** doinstalování dalších ovladačů a knihoven. Po nainstalování spustit **Arduino 2.3.2** a povolit další případné doinstalování dalších věcí a následně instalovat knihovny pro STM32.



Klik File, Preferences, a prázdná položka "Additional boards"

Eile Fr	atch_jul1a . ditSketch	Arduino IDE 2.3.2		
	€	Select Board	-	
	sketch 1 2 3 4 5 6 7 8 9 10	<pre>ultaino void setup() { // put your si void loop() { // put your m } Ly </pre>	Preferences Sketchbook location: c.Users402:DocumentsVard Show files inside Sketches Editor font size: Interface scale: Theme: Language: Show verbose output during Compiler varnings Wavify code after upload Calitor Auck Suggestions Additional boards manager UF	X Settings Network uino BROWSE 14 Automatic 100 % Light Compile Upload None RLs: CANCEL OK
8			_	

Pokud je tam prázdné okénko - vložit cestu (níže) : a OK https://github.com/stm32duino/BoardManagerFiles/raw/main/package_stmicroelectronics_index.json

	Settings Network			
Sketchbook location:				
c:\Users\402\Documents\Arduino				
Show files inside Sketches				
Editor font size:	14			
Interface scale:	✓ Automatic 100 %			
Theme:	Light 🗸			
Language:	English V (Reload required)			
Show verbose output during	🗌 compile 🗌 upload			
Compiler warnings	None 🛩			
 ◯ Verify code after upload ✓ Auto save ◯ Editor Quick Suggestions 				
Additional boards manager URLs: [Im32duino/BoardManagerFiles/raw/main/package_stmicroelectronics_index.jsor]				

Dále v položce "*Tools*", volit "*Board*" a zvolit "*Board manager*"

🔤 ske	etch_jul1a Ard	luino IDE 2.3.2		
		Auto Format Archive Sketch	Ctrl+T	
Ph	BOARDS	Manage Libraries	Ctrl+Shift+I	
	stm32	Serial Monitor	Ctrl+Shift+M	νp() {
የጋገ	Type:	Serial Plotter		your setup code here, to run once:
Шh	STM32	Firmware Updater Upload SSL Root Certificates	:	
ШИ	boards	Board		Boards Manager Ctrl+Shift+B
0	Boards in Nucleo-1 32. Disco	<u>Port</u> Get Board Info		Arduino AVR Boards
0	More inf	Burn Bootloader		
Q	2.8.0	INSTALL		

Zadat **STM32**, vybrat pak "*STM32MCU based boards*" a pomocí volby "*INSTALL*" nainstalovat knihovny STM32 (stahuje to mnoho souborů -1 GB a chvíli to trvá)

🥯 sketch_jul1a Arduino IDE 2.3.2								
File Edit Sketch Tools Help								
	Select Board		-					
	BOARDS MANAGER	sketch_ju	ul1a.ino					
	stm32	1	void setup					
		2	// put y					
12	Type: All 🗸	3						
		4	}					
Dfb	STM32 MCU based	5						
ШИ	boards by	6	void loop(
	Poards included in this package:	7	// put y					
0	Nucleo-144. Nucleo-64. Nucleo-	8						
	32, Discovery, Eval, STM32MP1	9	}					
	More info	10						
Q								
	1							

Teď by mělo být úspěšně nainstalováno Arduino 2.3.2.

Kontrola, že se nainstalovaly knihovny pro STM32

Klik "*Tools*", "*Board*" nyní by se mimo " Board manager" měla objevit i položka "*STM32 MCU based boards*".

								Diagona	
🧧 sketch_jul1a Arduino IDE 2.3.2								Discovery	
File Edi	File Edit Sketch Tools Help							Eval	
		Auto Format	Ctrl+T					STM32MP1 series coprocessor	
	6	Archive Sketch						Generic STM32C0 series	
Ph	BOARDS	Manage Libraries Ctrl+Shift+l						Generic STM32F0 series	
	stm32							Generic STM32F1 series	
	_	Serial Monitor C	trl+Shift+M					Conorio STM22E2 corior	
1°-)	Туре:	Serial Plotter							
	STM32	Firmware Updater						Generic STM32F3 series	
		Upload SSL Root Certificates						Generic STM32F4 series	
	Doards					0.1.0175.0		Generic STM32F7 series	
	2.0.0 IIR	Board: "Generic STM32F0 series" Port		Boards ManagerCtrl+Shift+B			Generic STM32G0 series		
121	Nucleo-6						Generic STM32G4 series		
\sim	STM32F1	Get Board Info						Generic STM32H5 series	
X	More inf	Debug symbols and core logs: "None")					Generic STM32H7 Series	
	2.8.0 Optimize: "Smallest (-Os default)" Board part number: "Generic F042F6Px"		,					Generic STM32H7 Series	
			,					Generic STM32L0 series	
								Generic STM32L1 series	
СТАЛО А		C Runtime Library: "Newlib Nano (default)"						Generic STM32L4 series	
	boards Upload method: "STM32CubeProgrammer (DFU)" USB support (if available): "CDC (generic "Serial" supersede U(S)ART)" Nucleo_E U(S)ART support: "Disabled (no Serial support)"		,					Generic STM32L5 series	
			I					Generic STM32U5 series	
			I					Generic STM32WB series	
Nucleo_E More inf Programmer: "STMicroel		Programmer: "STMicroelectronics ST-LINK"						Generic STM22W/RA series	
		Purp Postloader						Generic STIVISZWDA Series	
1.0.0 Jun accorder Installing STMicroelectronics:STM32_SVD01_15_1							Generic STM32WL series		

Další instalace

Nakopírování Zeroe elab viever 0.6 (ten již v A3-115 je) a Zeroe elab viever 0.7

+ přidat Terminálový program typu **PuTTy** (v v A3-115 je nainstalovaný, v A3-412 ??)

Na plochu přidat odkaz na https://embedded.fel.cvut.cz/kurzy/elektronika/elektronika2024