

Class	1CTAI
First Name:	Max
Name	Drahomaretskyi
Project Name :	AI StudyFocus
Assembly Revision :	4
Approval Date :	25.03.2026
Part Count :	13
Total Cost :	€186



Part #	Part Name	Description	Revision	Qty	Supplier
1	Raspberry Pi 5	Raspberry Pi to control the entire system	1	1	https://amzn.eu/d/0j8O4WQm
2	Raspberry Pi Power Supply 27W	Stable power to the Raspberry Pi	1	1	https://amzn.eu/d/0iPg1WoL
3	GeekPi Armor Lite V5 Case	A protective case with cooling and ventilation system	1	1	https://amzn.eu/d/0forjTDC
4	Freenove Project Kit	Contains RGB LED, LCD, Resistors, ADC and some wires	1	1	https://amzn.eu/d/0b1wXAEd
5	2K Webcam	Captures real-time data for AI focus detection	4	1	https://www.amazon.com.be/dp/B0C76ZD7KV?ref=ppx_yo2ov_dt_b_fed_asin_title&th=1

6	M-F Jumper-wires 10 cm	Connects pieces of hardware	3	1	https://www.tinytronics.nl/en/cables-and-connectors/cables-and-adapters/prototyping-wires/dupont-compatible-and-jumper/dupont-jumper-compatible-and-jumper/dupont-jumper-compatible-and-jumper/
7	Selfie-stick	Serves as an adjustable camera stand for the webcam	4	1	https://www.amazon.com.be/dp/B0FRB15S97?ref=cm_sw_r_cso_tg_apin_dp_80TTEY44ZV9AE9CWMKNCB&ref=cm_sw_r_cso_tg_apin_dp_80TTEY44ZV9AE9CWMKNCB
8	Push button	Turns the session on/off	3	1	https://www.tinytronics.nl/en/switches/manual-switches/push-buttons-and-switches/black-push-button-12mm-reset-button-22h
9	Metal box hinges	Needed to open/close the lid ("hinged-lid mechanism").	4	1	https://nl.vidaxl.be/e/vidaxl-scharnier-effen-2-pcs-zilver-58-x-35-x-1-mm-staal/8721288589354.html?gad_source=1&gad_campaignid=10622776820&gad_source=1
10	Screws	Screw the hinges to the walls of the box and the lid	4	1	https://www.brico.be/fr/quincaillerie/fixations-techniques/vis/vis-universelles/vis-universelle-sencys-tp-poz-2-5x12mm-hi-chromatisee-60
11	Wood glue	Holds the walls firmly in place	4	1	https://www.brico.be/fr/quincaillerie/colles-mastics-de-reparation-rubans-adhesifs/colles/colles-a-bois/colle-a-bois-professionnelle-bien-extra-transparente
12	Laser cutting (Wooden box)	Wood material and laser cutting	3	1	-
13	3D print (Camera holder)	Plastic material and 3D print	4	1	-

Total

13

also available from	Units	Unit Cost	Max Cost	Real Cost
https://www.kiwi-electronics.com/nl/raspberry-pi-5-4gb-11579	1	€ 63,26	€ 145,53	€ 63,26
https://www.ifixit.com/en/eu/products/raspberry-pi-27w-usb-c-power-supply?variant=55970597273	1	€ 12,98	€ 17,14	€ 12,98
https://www.ebay.com/itm/225901175474	1	€ 9,99	€ 9,99	€ 9,99
-	1	€ 59,95	€ 59,95	€ 59,95
https://nl.aliexpress.com/item/1005009234854371.html?src=google&pdp_npi=4%40dis%21EUR%2128,84%2125%21	1	€ 20,00	€ 15,95	€ 20,00

