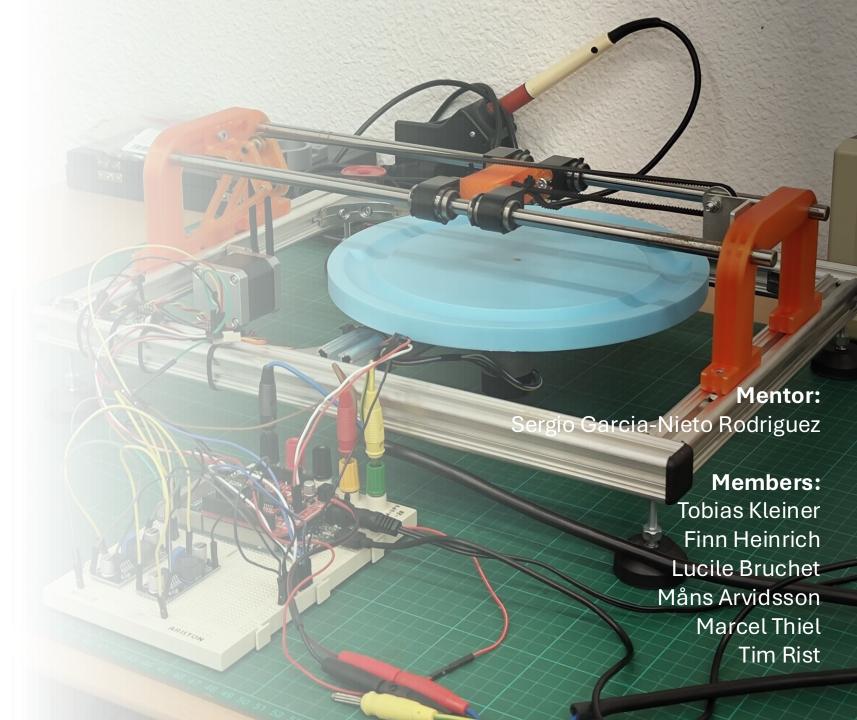
EPS2024 Final Presentation 13.11.2024





"

Develop low-cost bench test platforms to be used as equipment for university laboratories for practical sessions in technology-related courses.



bench test platforms

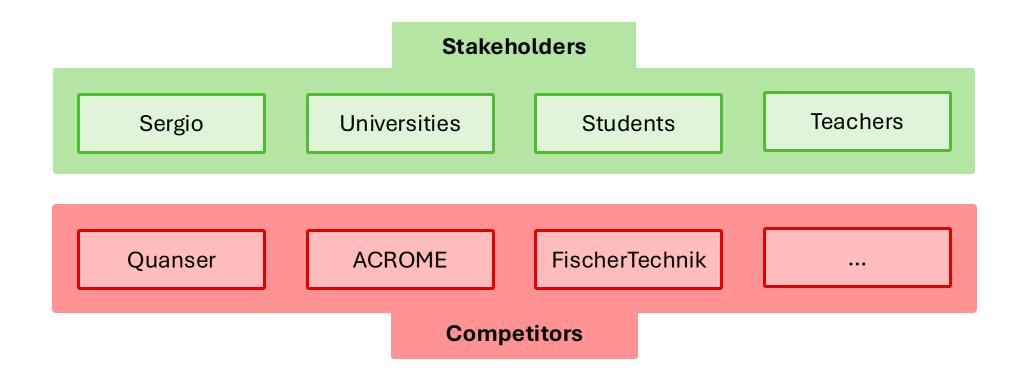








Interested Parties



Affordable

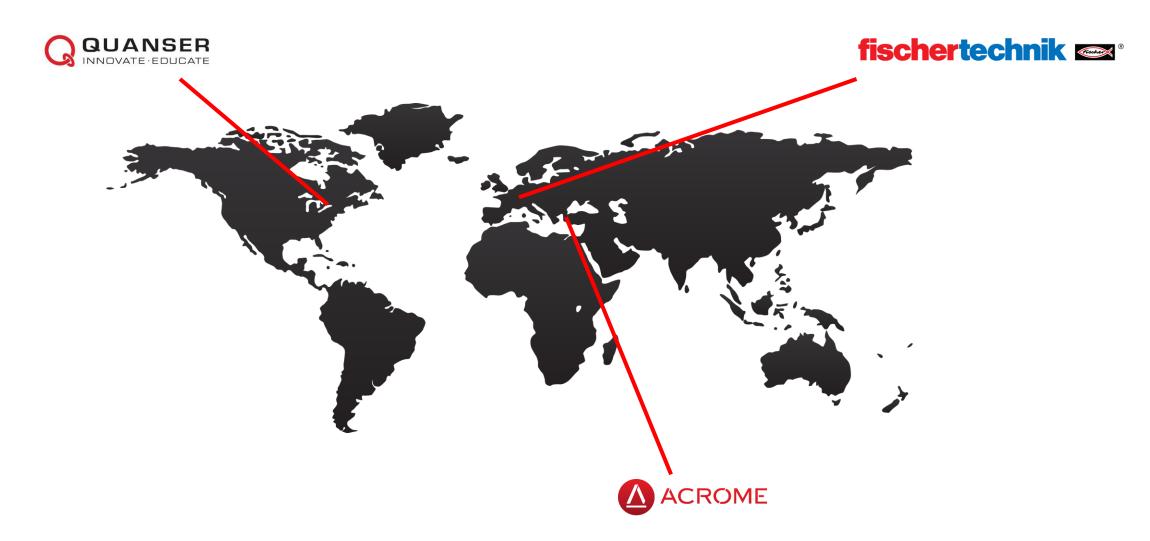
Components	Estimated Costs of 2024	
Electronics		
Arduino Due	50,78€	[1]
Sparkfun Ardumoto Shield Driver	22,50€	[2]
Polulu DC Motor	51,95€	[3]
Limit Switch	2,50€	[4]
Stepper Motor Nema 17	16,90€	[5]
Stepper Motor Driver	4,68€	[6]
ToF VL61080X	8,99€	[7]
ToF VL530L0X	4,99€	[8]
LM2596S Voltage Converter	6,99€	[9]
Total Electronic Costs	153,40€	

Components	Estimated Costs of 2024	
Logic		
Matlab / Simulink	Is required beforehand	
Mechanics		
Belt	5,30 €	
PLA Material	15 €	
Aluminum Profiles Length	50 €	
Total mechanical Costs	70,30 €	
Total electronic Costs	153,40€	
Total Bench Test Platform Costs	223,70€	

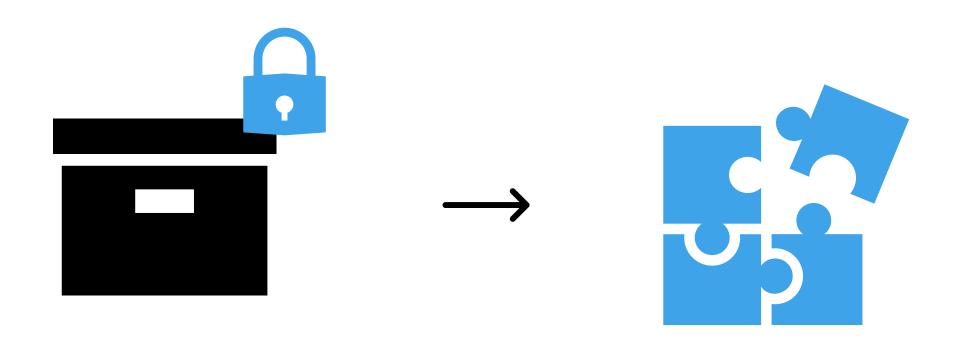




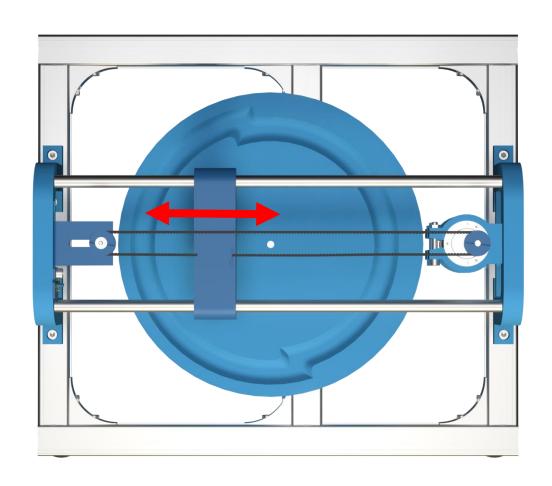
Maintainable

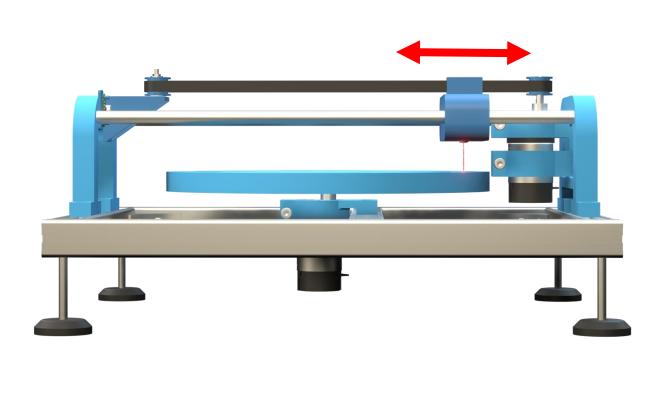


Expandable

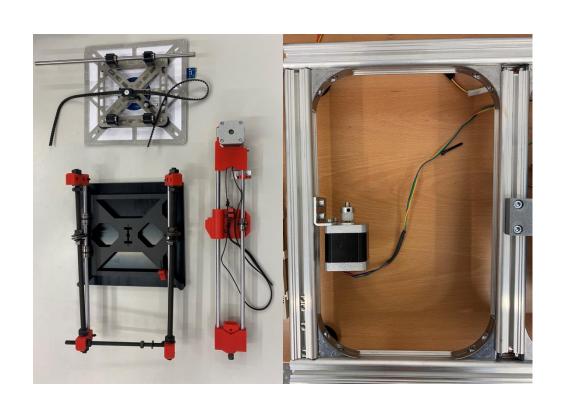


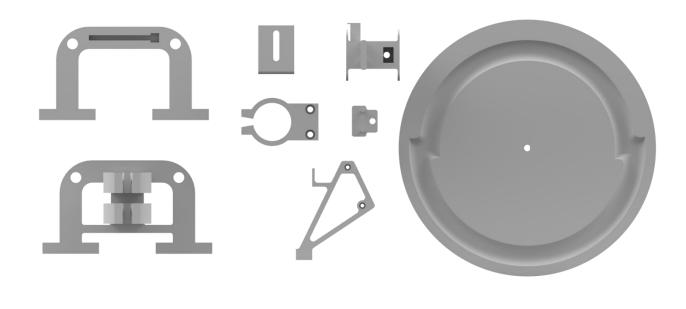
Function

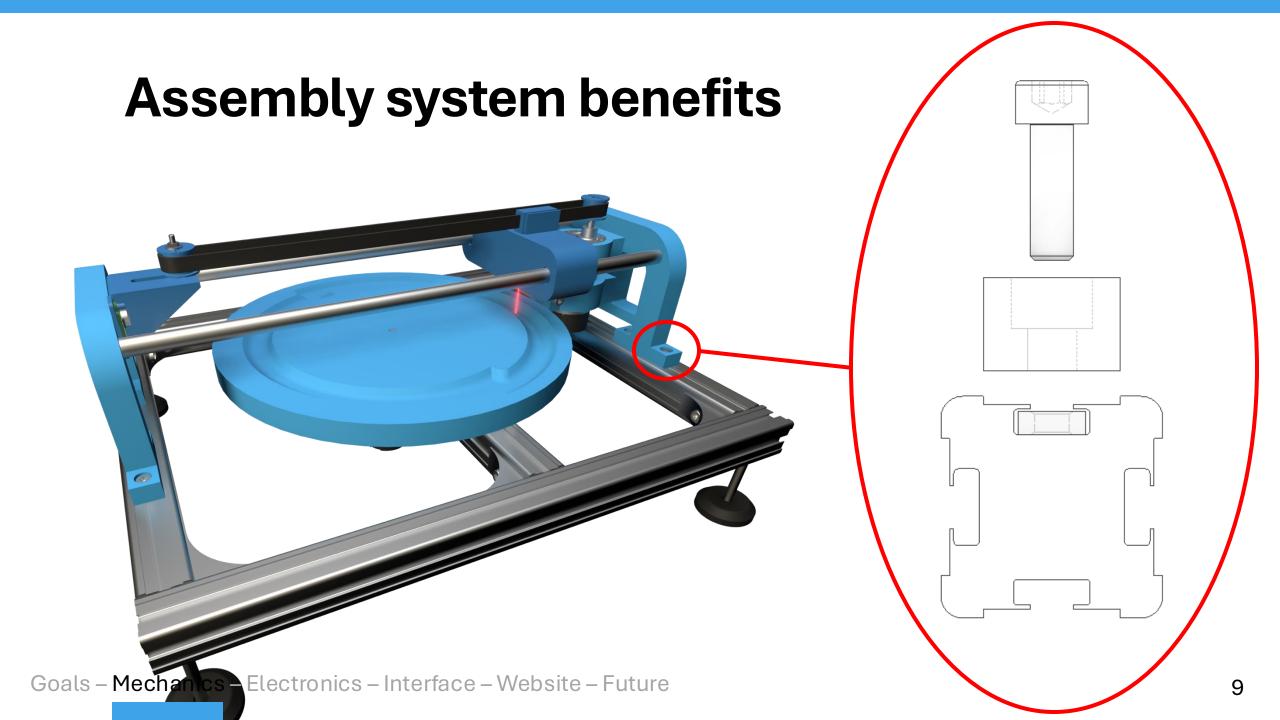




Existing solutions / custom made

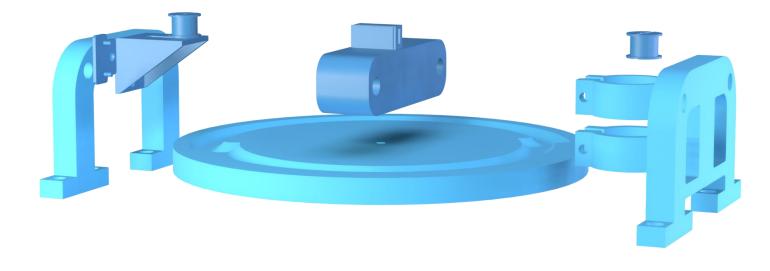




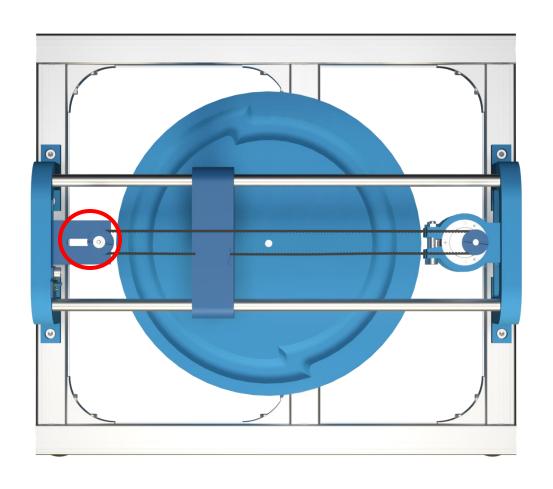


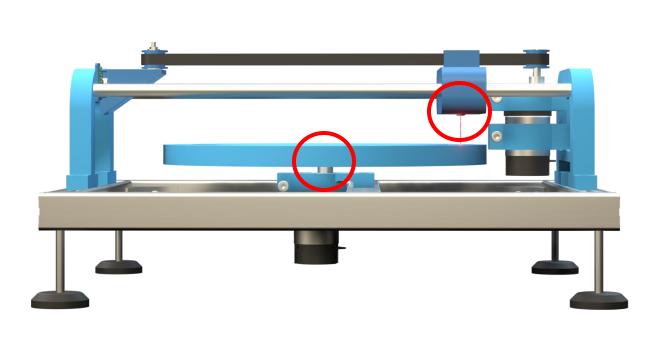


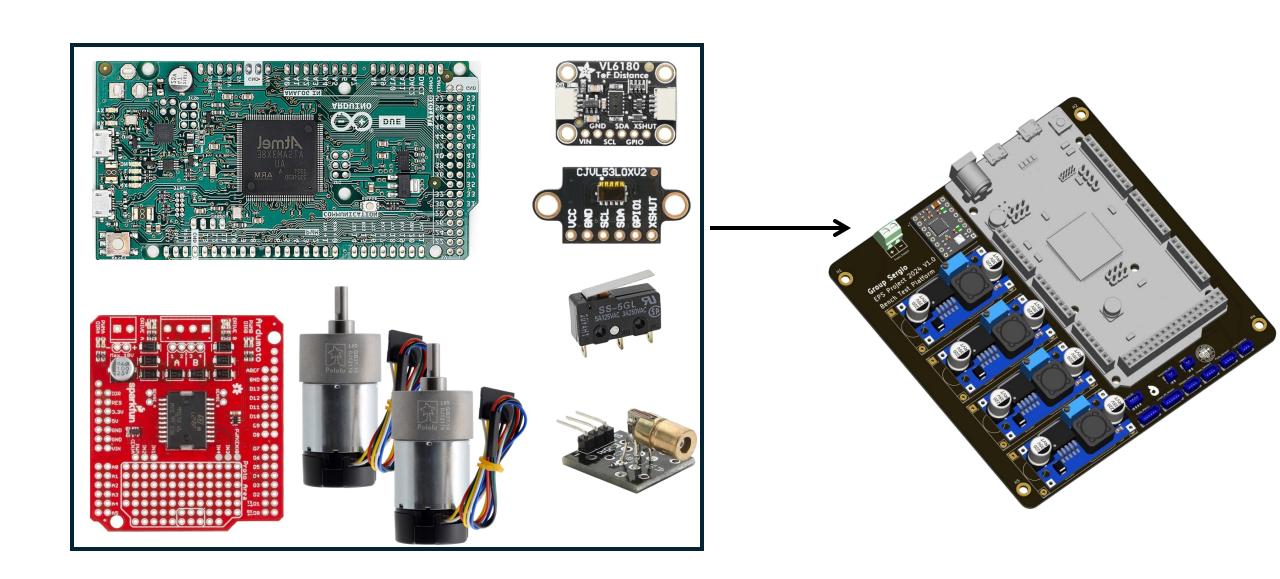
3D printing benefits

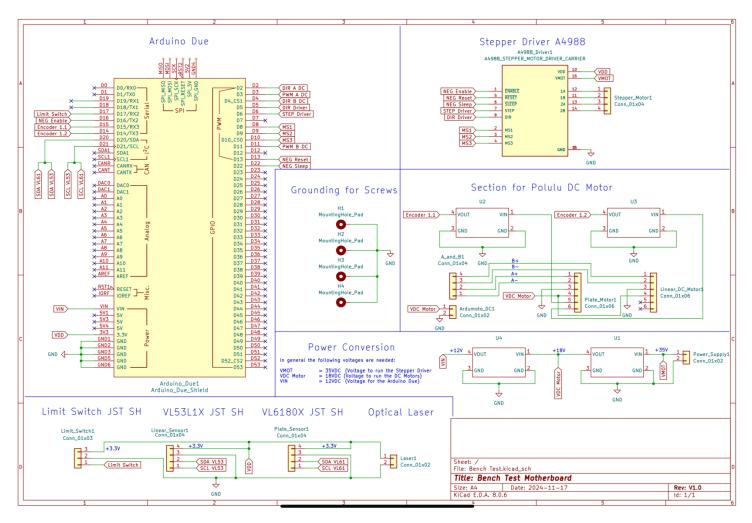


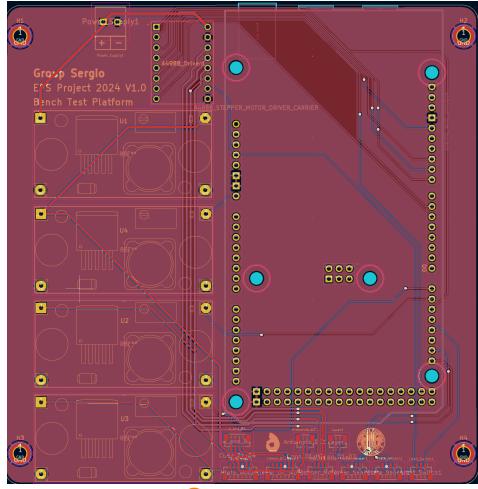
Measurement Points



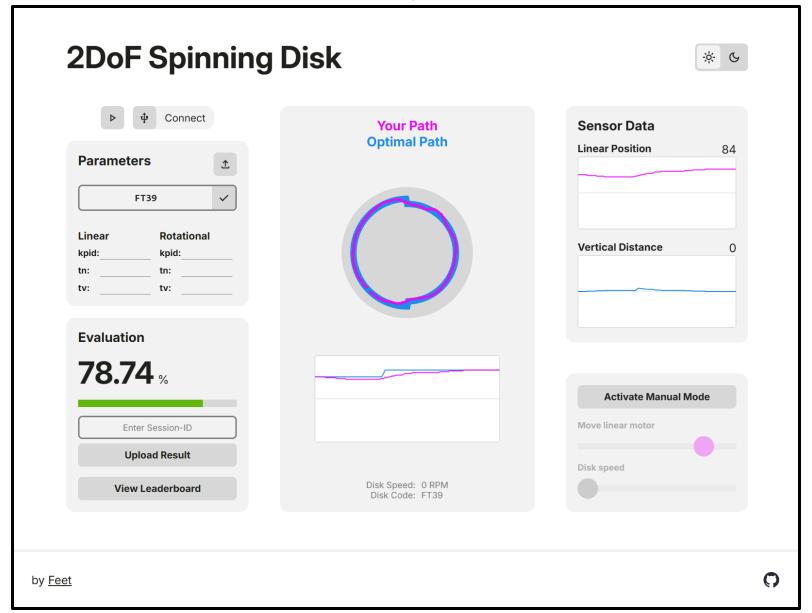




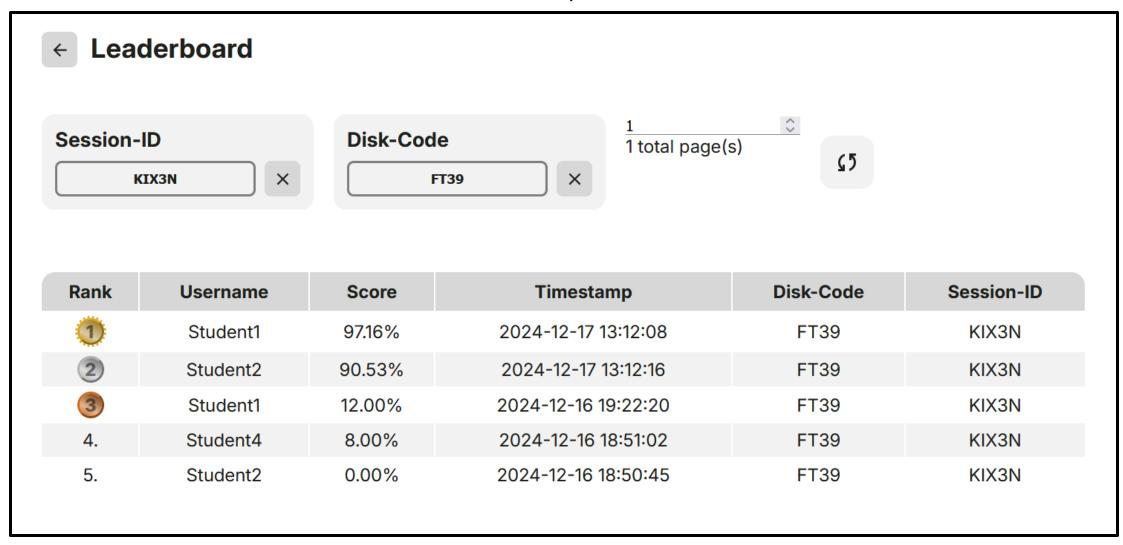




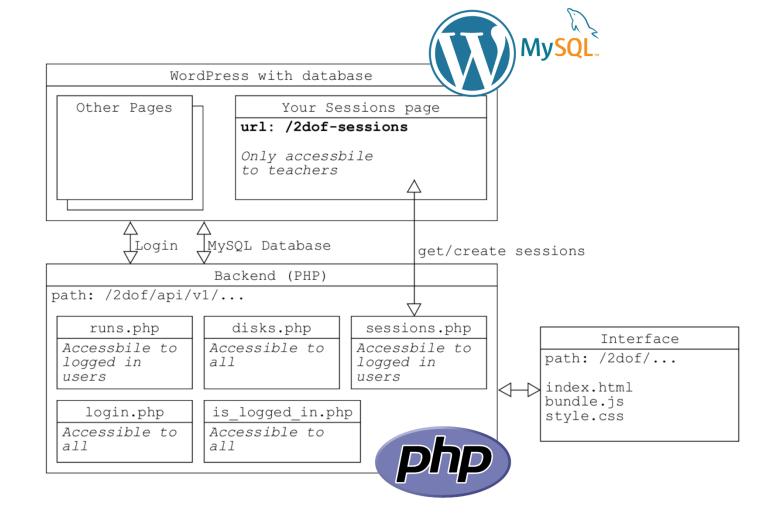


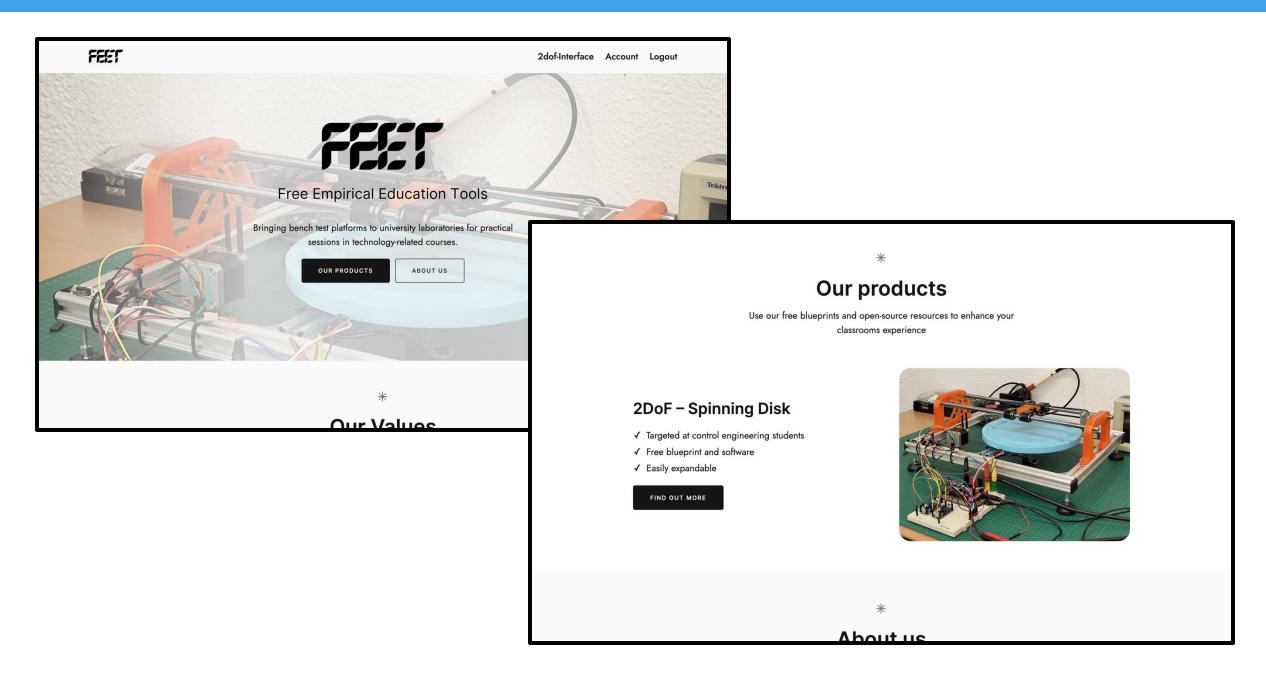


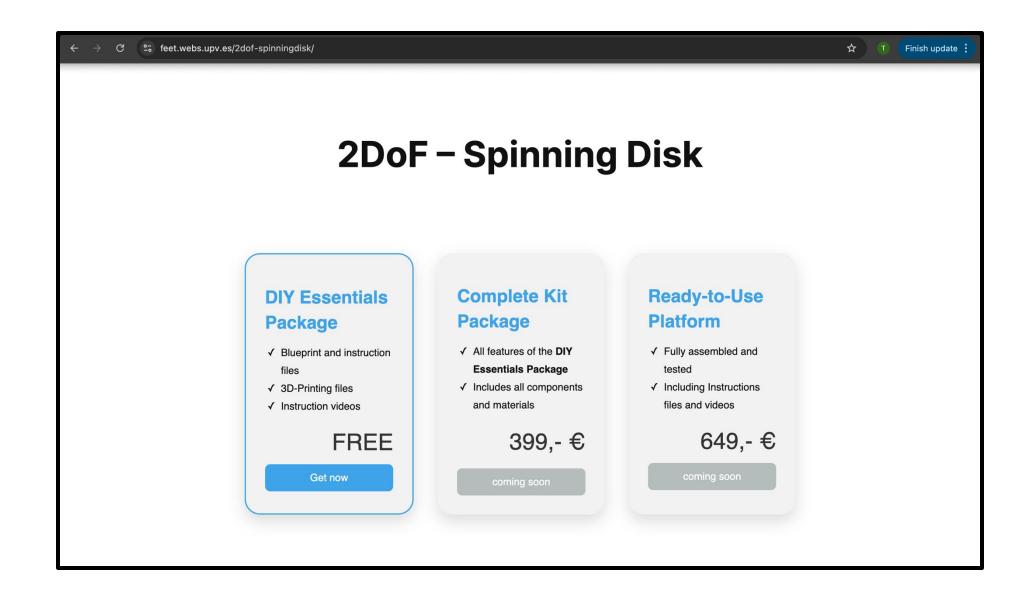
feet.upv.es

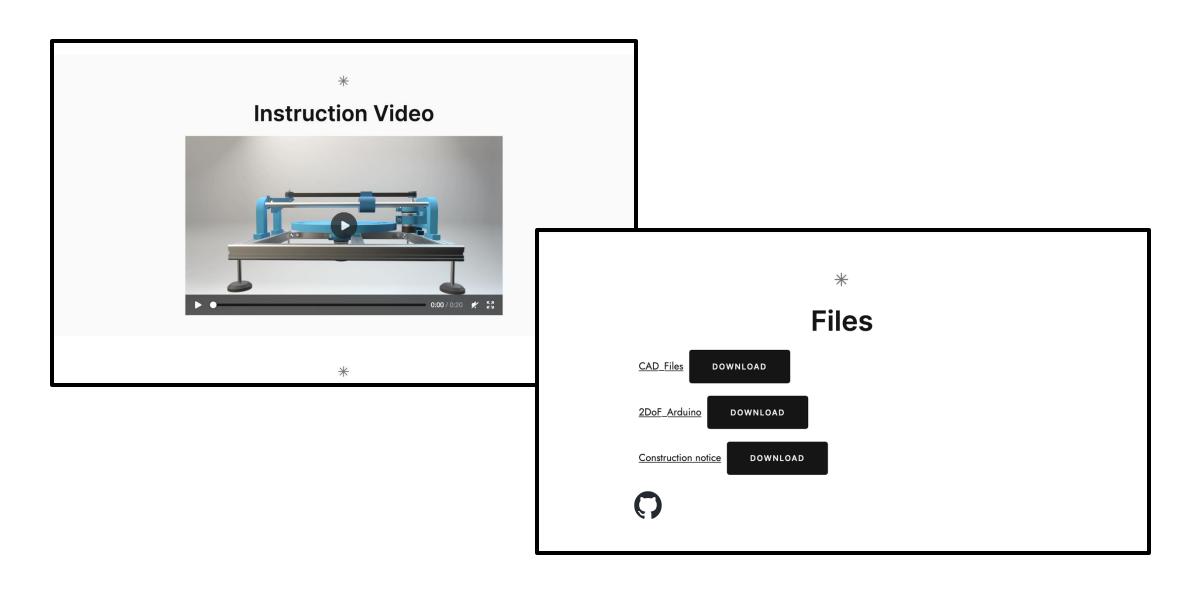












Future of FEET



Visit us at

feet.upv.es