Airsoft gun controller ? bring-up notes

CircuitMind s.r.o. / circmind@gmail.com / Prague

ATMega328 controller for an automatic magazine loader. USB?UART configuration with password lock, OLED UI, DC motor drive.

Bring-up: connect USB, open the serial terminal, authenticate, set motor current limit, then run a stall-detection test with a blocked gearbox before live fire loading.

Protections: deep-discharge cutoff, overcurrent and stall detection. Do not bypass them in the field firmware.

This note is a short excerpt from the project file. Ask us for the full schematic, OLED assets and configuration protocol.