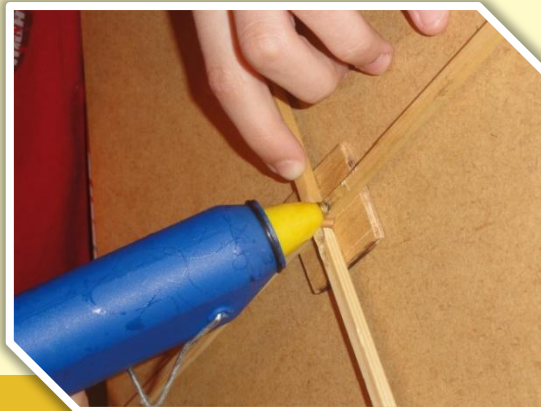
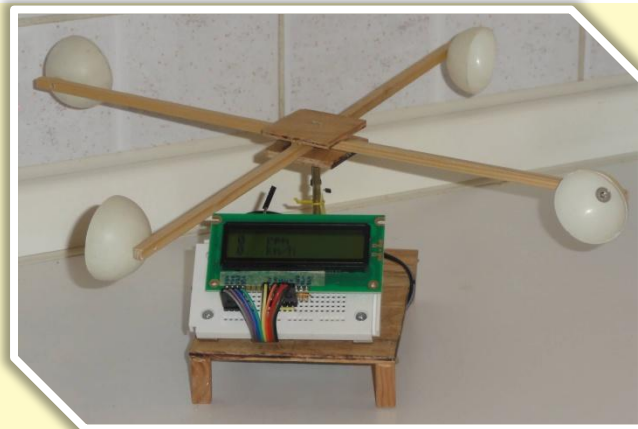


ANEMOMETAR

Izradio: Grgur Premec, onwizz@gmail.com

Ovo je anemometar koji sam napravio kod kuće od šperploče, ping-pong loptica, ekrana, Arduino pločice i malo vrućeg ljepila.



Dijelovi anemometra

Rotor promjera 35 cm

16x2 LCD ekran:
prikazuje brzinu vjetra

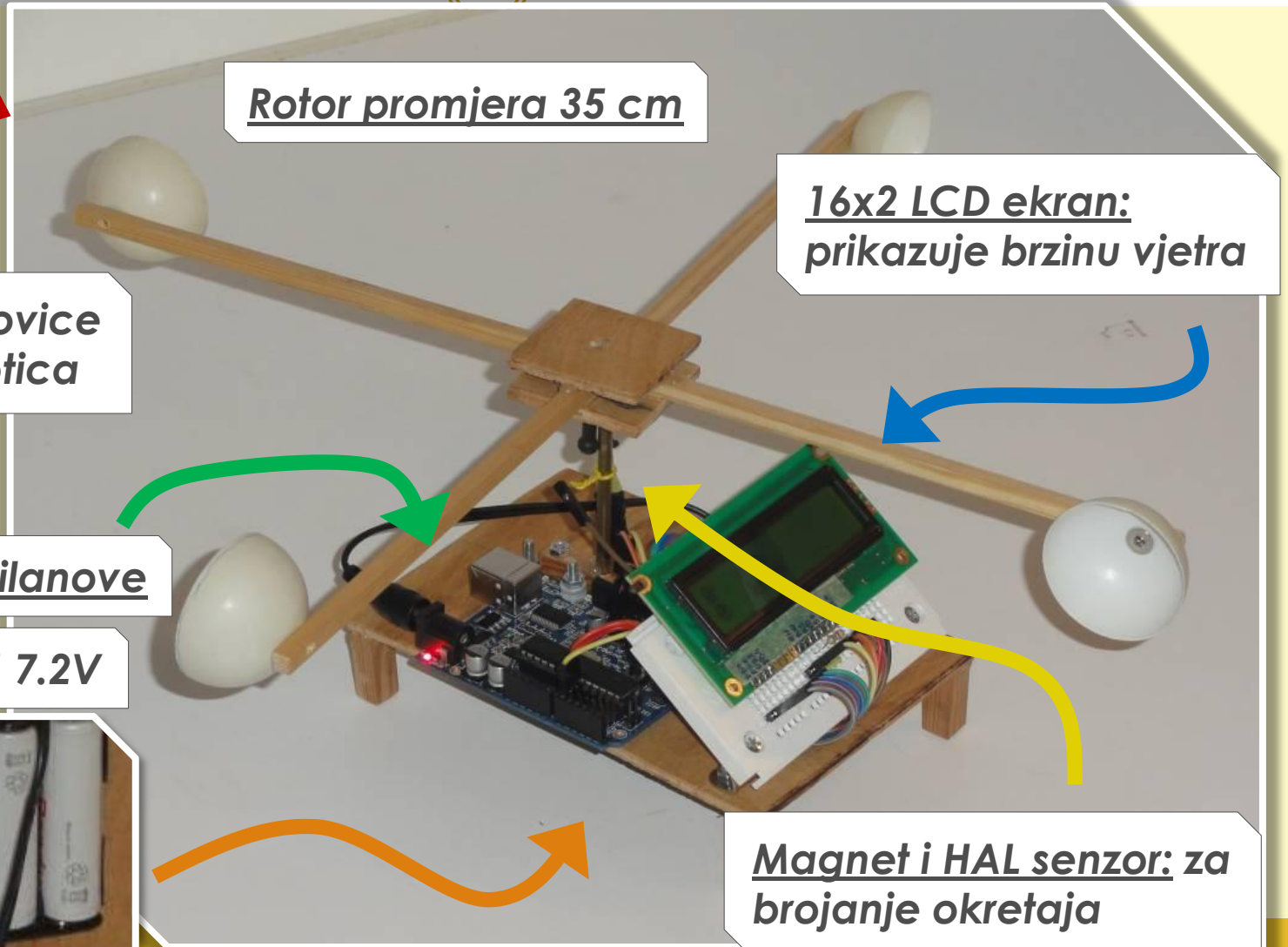
Lopatice: polovice ping-pong loptica

Arduino Duemilanove

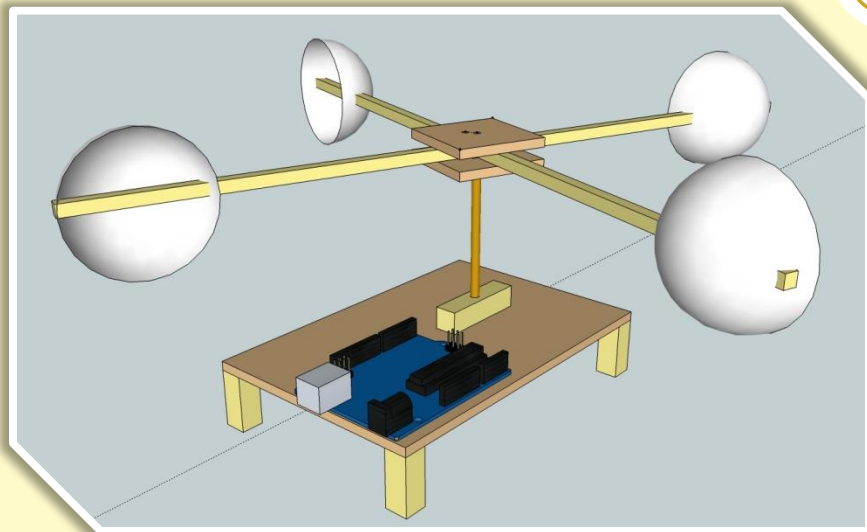
Baterije: NiMH 7.2V



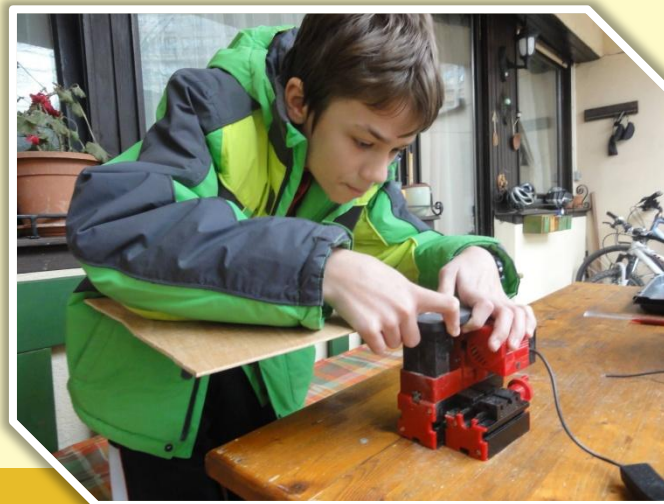
Magnet i HAL senzor: za brojanje okretaja



Izrada

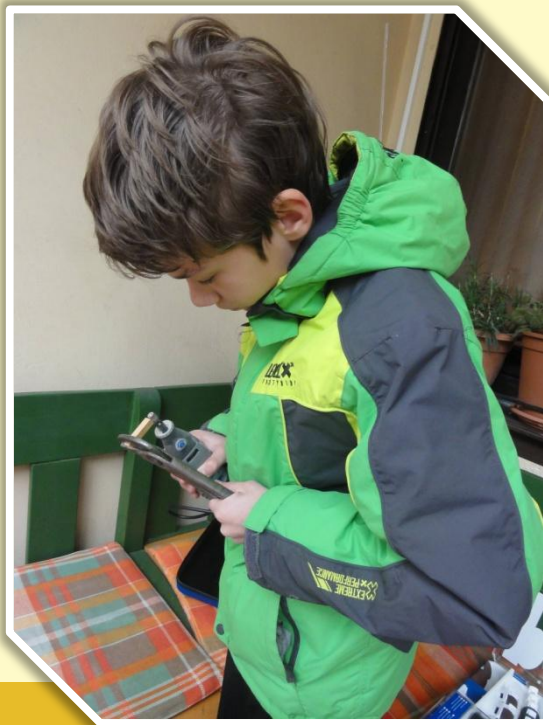


Prvo sam napravio nacrt u programu za 3D modeliranje SketchUp, a zatim sam ispilio sve dijelove. Šperploču sam pilio sa Unimatom (mala motorna pilica), a letvice sa običnom ručnom pilom.



Izrada

Zatim sam dijelove izbrusio, prvo grubo, s Dremelom, a zatim fino, s brusnim papirom.

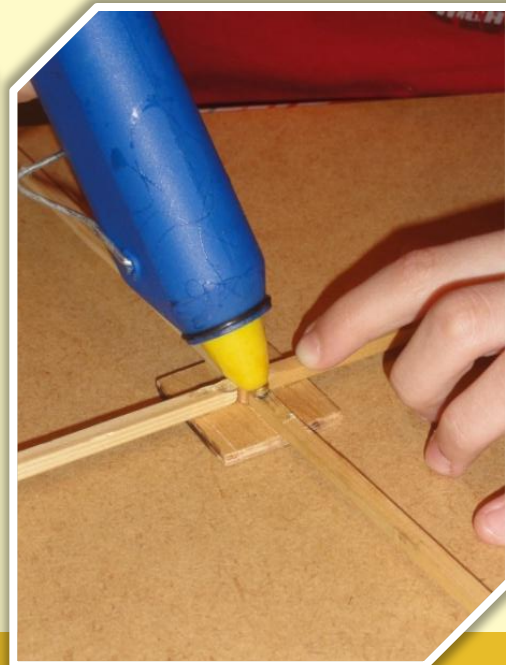
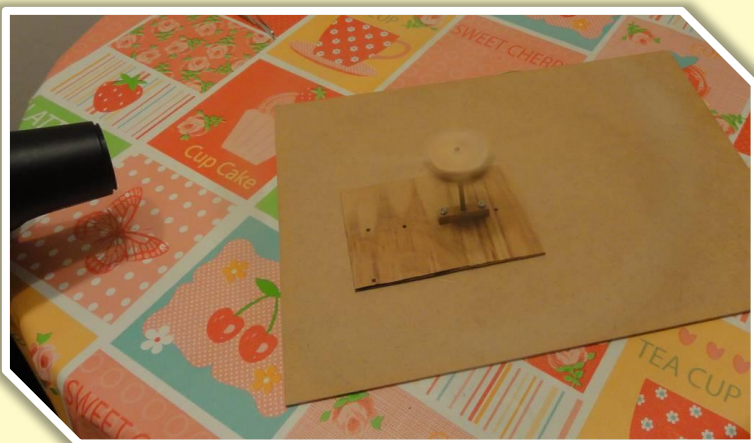


Na njima sam onda izbušio rupe sa akumulatorskom bušilicom.

Izrada



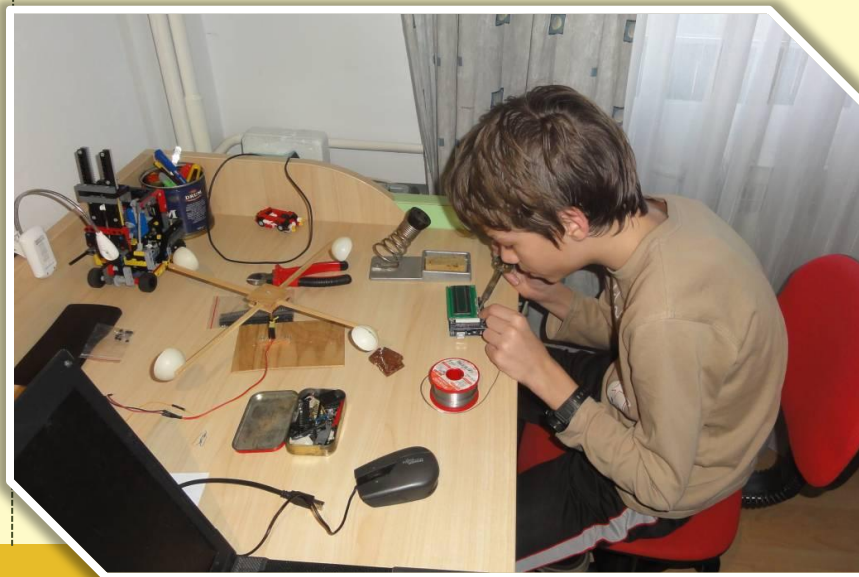
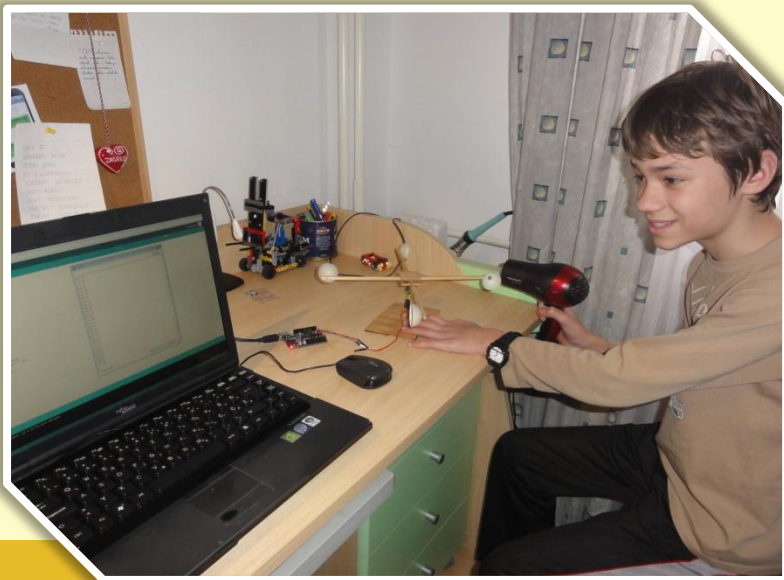
Onda sam prepilio ping-pong loptice i, nakon što su svi dijelovi bili spremni, zalijepio sam rotor i napravio prve testove s fenom.



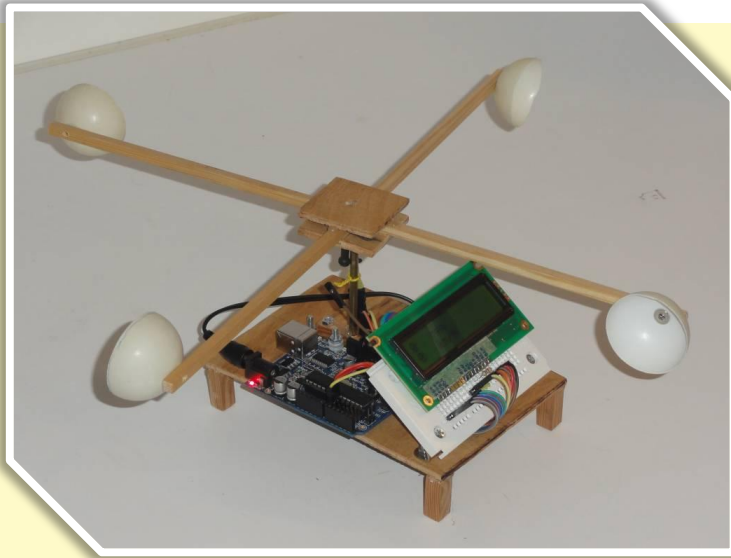
Izrada



Pričvrstio sam magnet i HAL senzor, pa sam spojio senzor na Arduino i počeo programirati. Kad je prorađilo, zalemio sam pinove na LCD ekran i pričvrstio ga na eksperimentalnu pločicu.



Završetak



Ekran, Arduino i baterije sam pričvrstio pomoću M3 vijaka i malih kutnih profila. Program sam prilagodio da ispisi brzinu vjeta na ekran, i anemometar je bio gotov!

