

Water strobe light
Airinei Daniel 336CB
Introducere

Un sistem format dintr-o pompa care genereaza un flux constant de apa, care curge printr-un tub conectat la un difuzor ce vibreaza la aceeasi frecventa cu un stroboscop care lumineaza fluxul respectiv, formand iluzia unui flux care pluteste.



Hardware

Arduino
Fire
Rezistente
Amplificator (tranzistoare + rezistente + sursa de tensiune)
Motor
Difuzor
LED

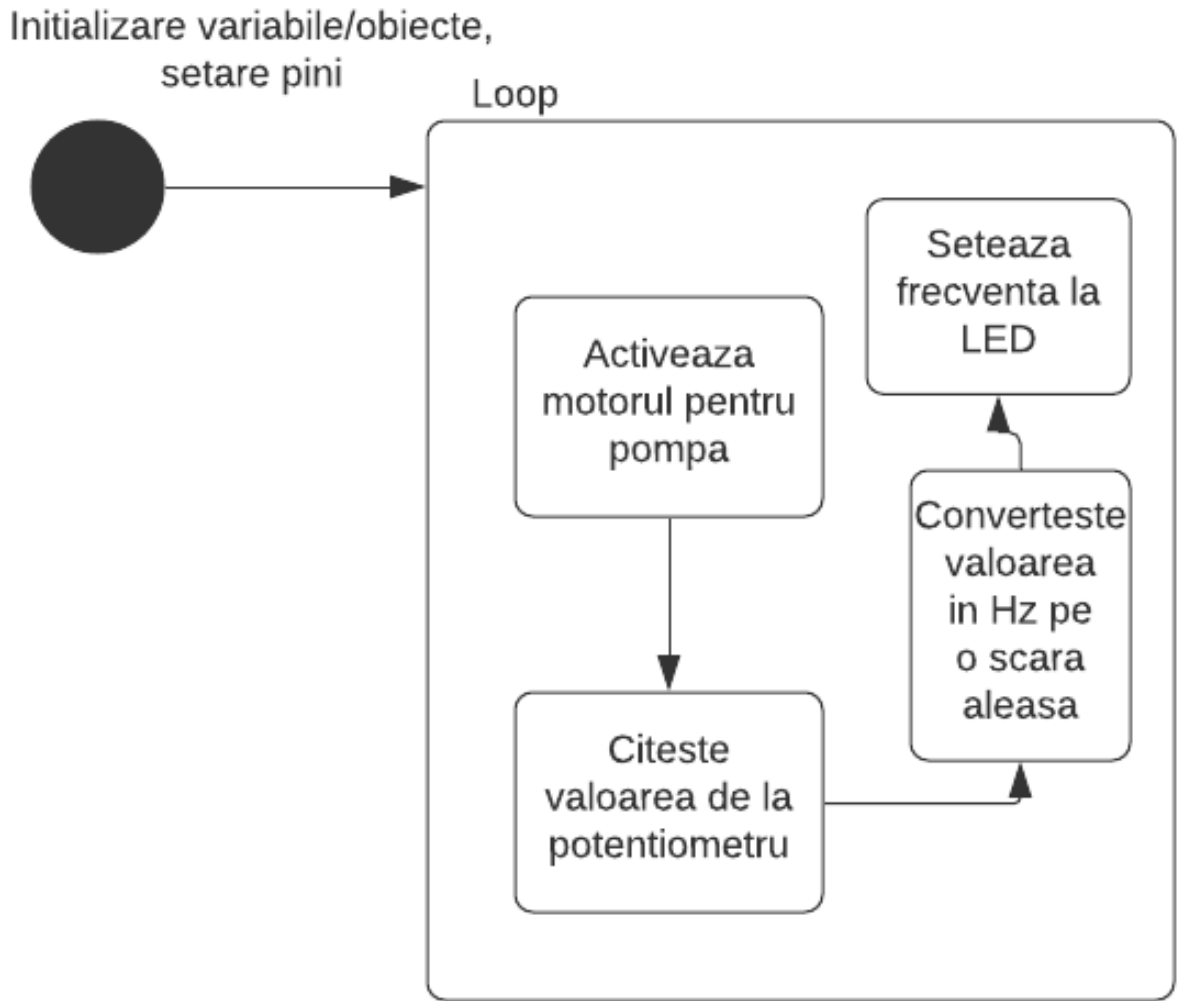
Schema bloc



Schema electrica

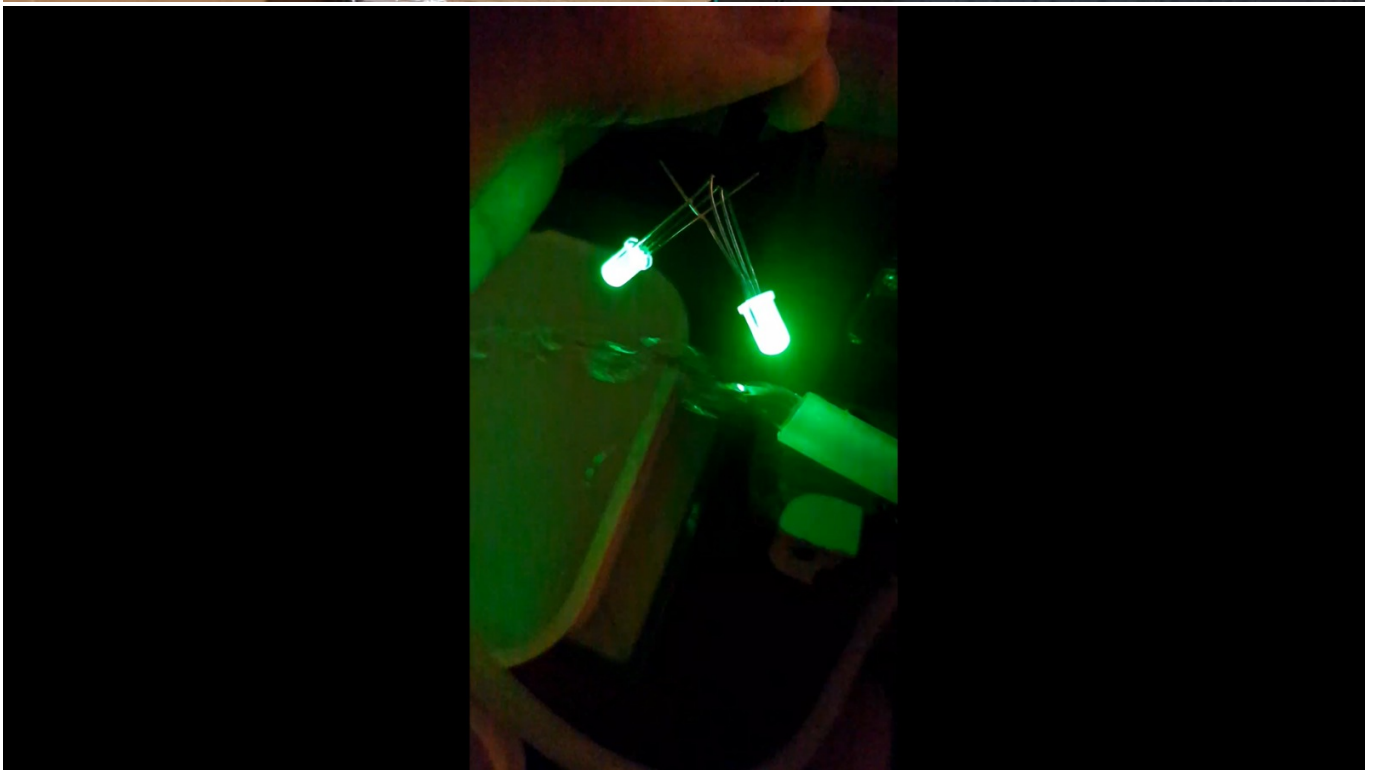
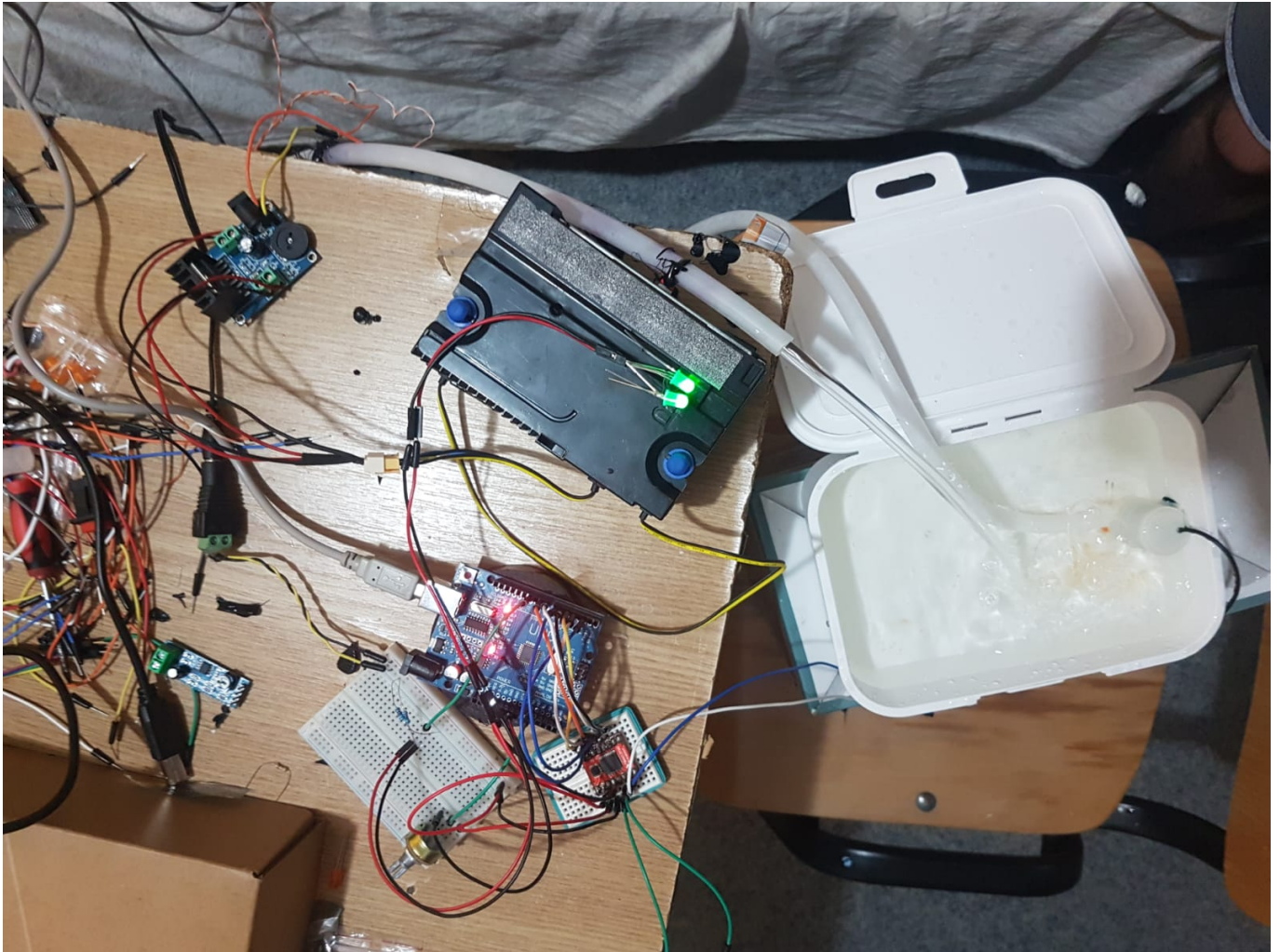


Software design



Proiectul foloseste libraria SparkFun_TB6612.h pentru activarea motorului.

Rezultate obtinute



Concluzii

Totul a decurs conform planificarii, am obtinut pe langa efectul dorit o multitudine de efecte folosind

stroboscopul si motoarele pe care le aveam in plus. Am obtinut acelasi efect vibrand furtunul si cu difuzorul dar si lovindu-l mecanic cu un motor.

Demo

https://www.youtube.com/watch?v=bg3cX_9YdGc

Bibliografie

<https://www.electroboom.com/?p=268>

<https://www.youtube.com/watch?v=kZHVJVzHs8s>

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