

## 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.



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### Hardware

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

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### Schema bloc



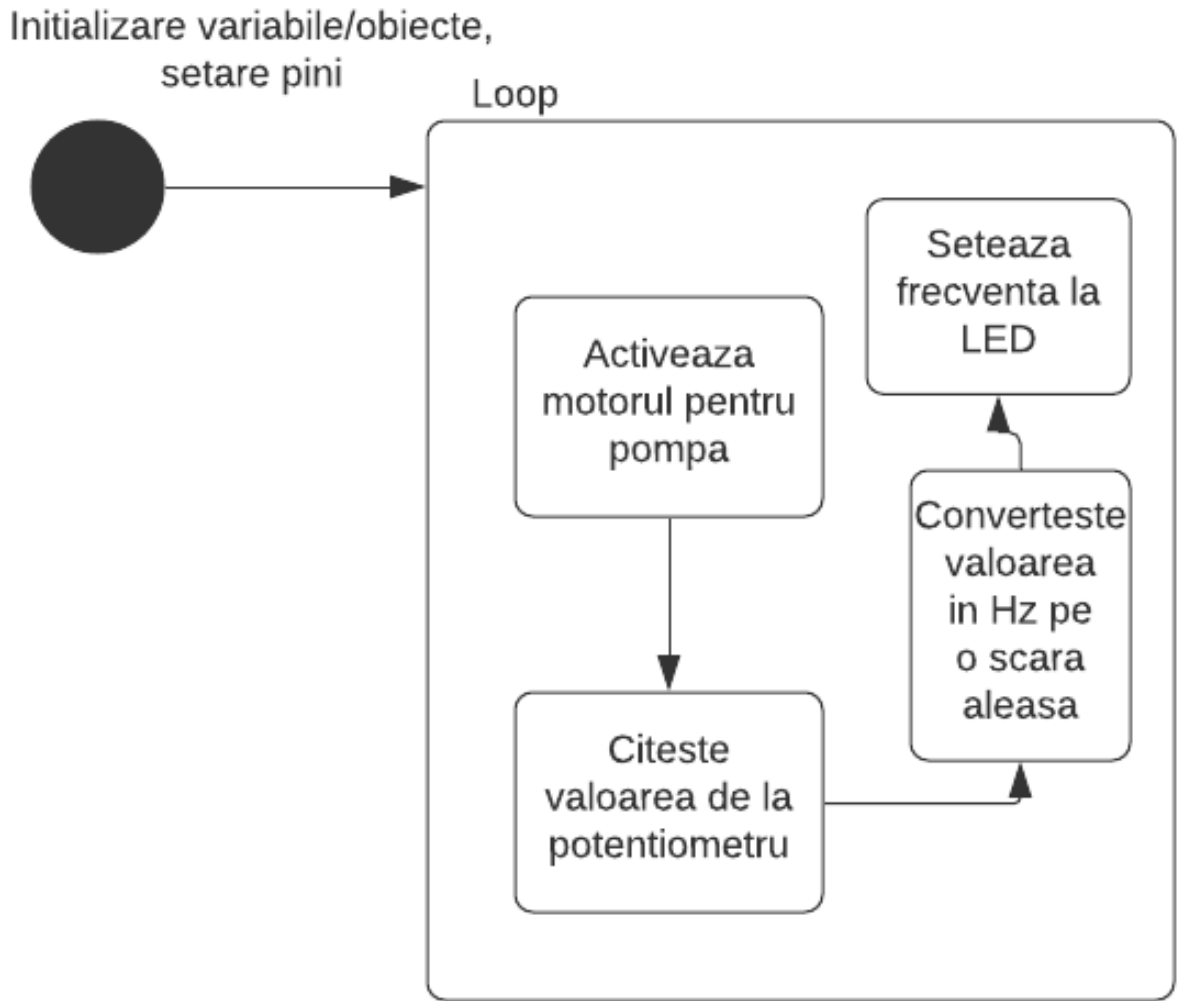
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### Schema electrica



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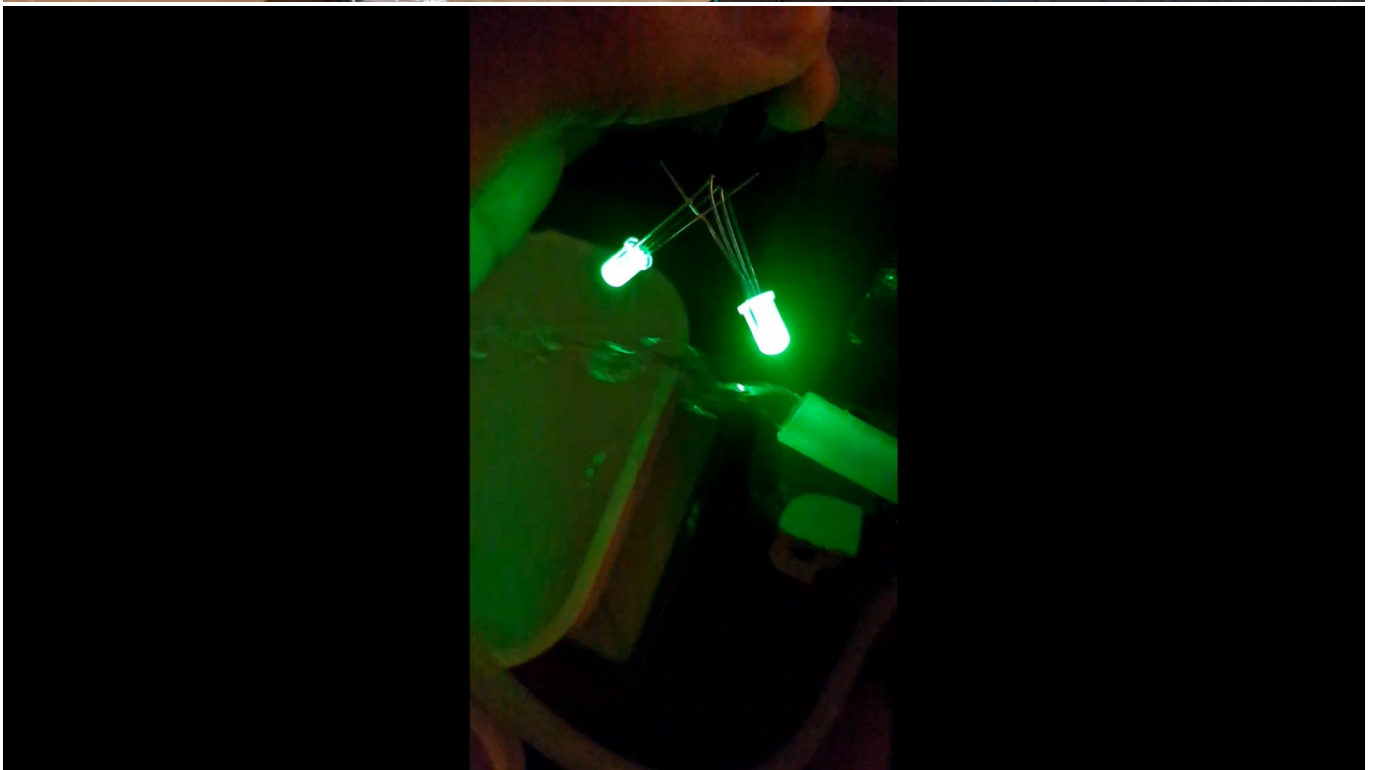
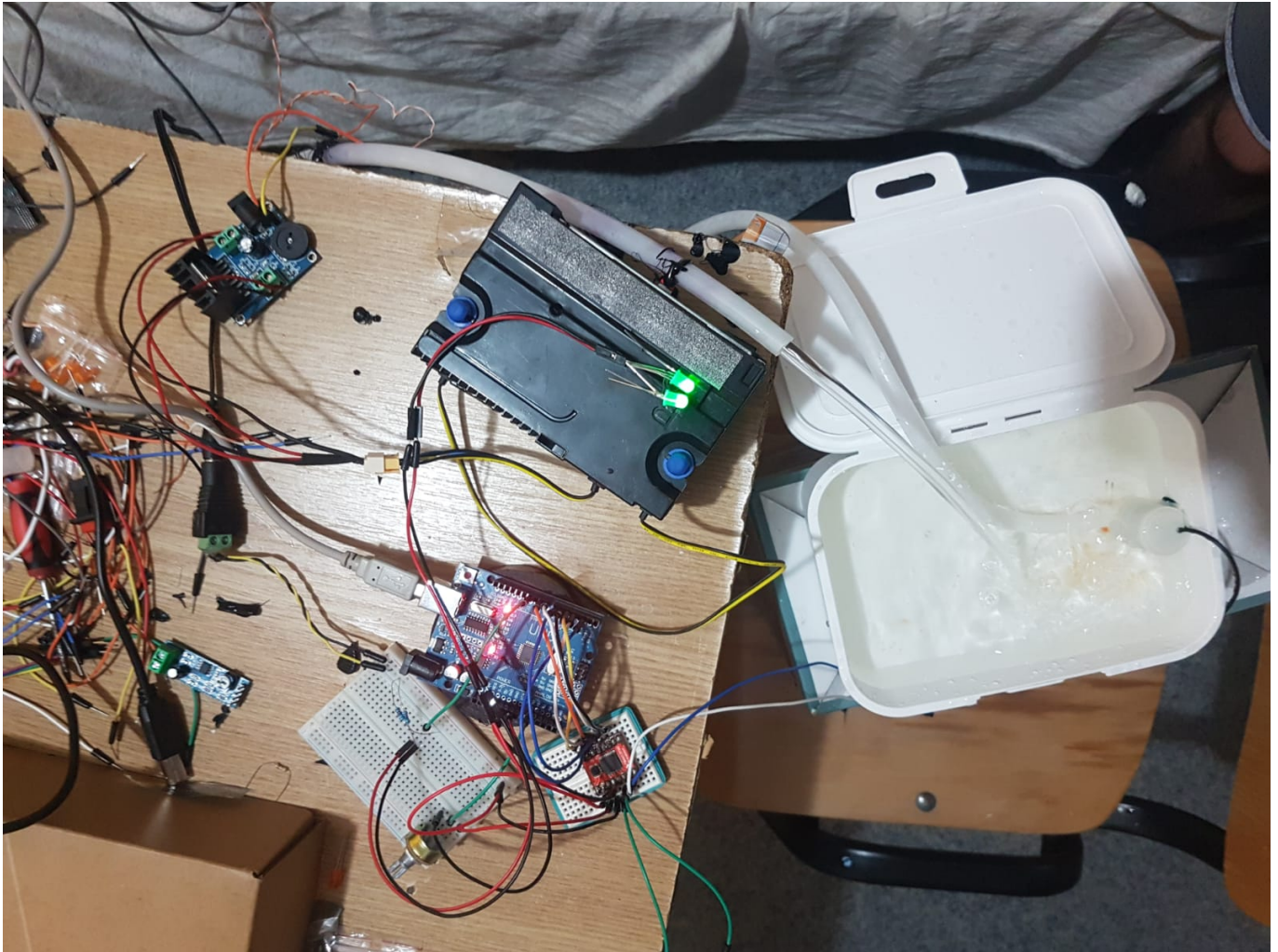
### Software design



Proiectul foloseste biblioteca SparkFun\_TB6612.h pentru activarea motorului.

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Rezultate obtinute



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### 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.

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#### Demo

[https://www.youtube.com/watch?v=bg3cX\\_9YdGc](https://www.youtube.com/watch?v=bg3cX_9YdGc)

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#### Bibliografie

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

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

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