

Eletrónica e IOT

12 de Maio 2021



Deloitte.

Quem somos?

NEEC 💓

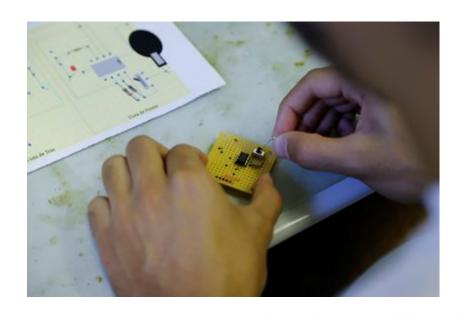
- Núcleo de alunos de MEEC do IST;
- Associação sem fins lucrativos;
- Desde 19 de setembro de 2003.



O que fazemos?

NEEC 100

Receção aos novos alunos





Workshop de construção de um Blinker (em colaboração com a CPMEEC)

O que fazemos?



Workshops



O que fazemos?



- NEECLab;
- Drive MEEC;
- Apoio ao Aluno;
- IST Summer Internships;
- Contacto empresarial.





Deloitte.

Projeto a Desenvolver



- Sistema de irrigação para uma planta;
- NodeMCU e EasyloT Cloud;
- Auto mode: de 1 em 1 segundo verifica o valor da humidade do solo. Caso seja inferior ao valor estipulado rega a planta;
- Manual mode: através da web app, iniciar a rega (duração de 10s);



IoT - *Internet of Things*



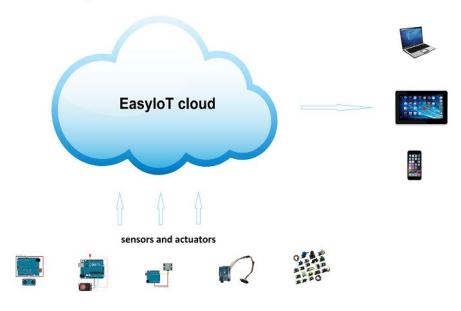
- **Rede** de objetos físicos;
- Recolha e transmissão de dados;
- Controlo remoto de objetos (internet, wifi, Bluetooth, etc.);
- Inúmeros benefícios, riscos e grandes desafios;



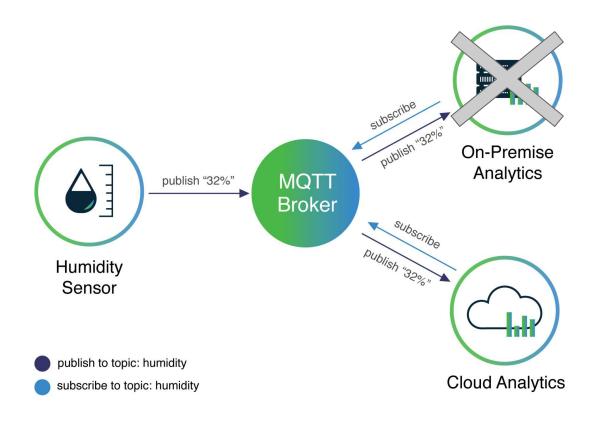
EasyIoT Cloud



EasyloT framework II architecture







Componentes



Resistência (4.7kohm)



Sensor de humidade



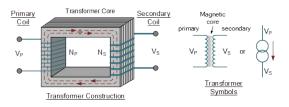
Nodemcu



Relay



Transformador





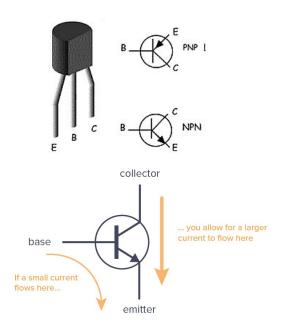
Componentes



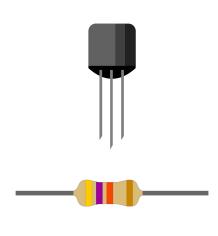
Dc power connector



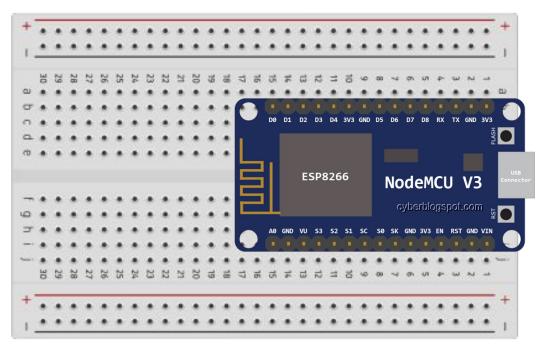
Transístor (tbj)



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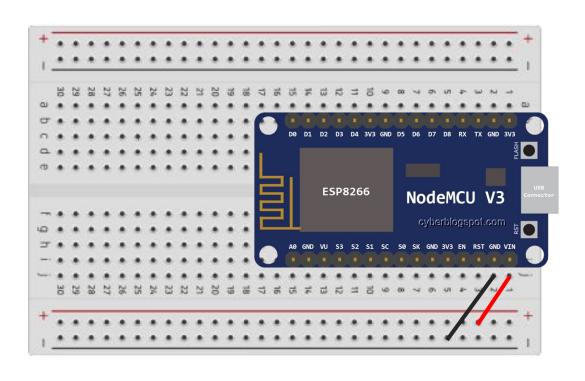




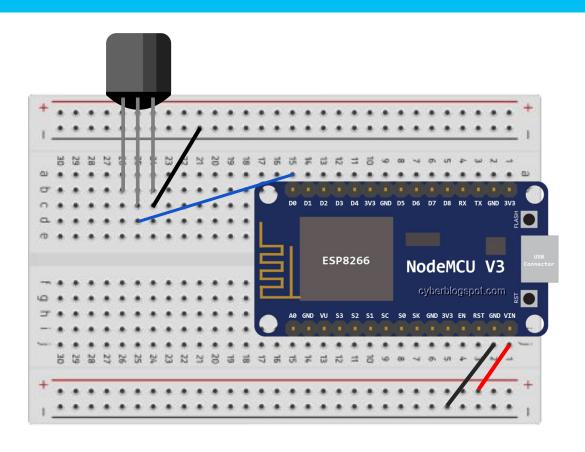




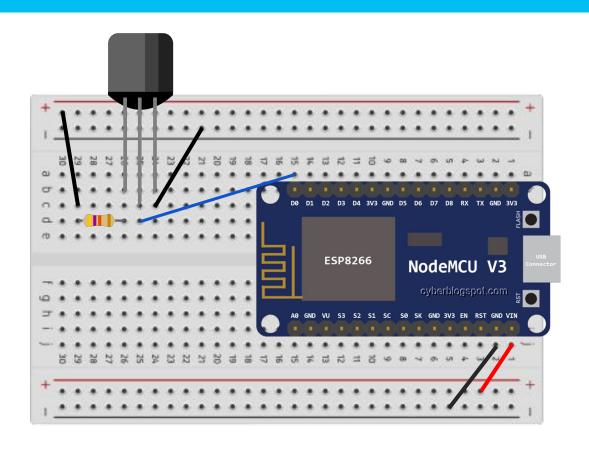




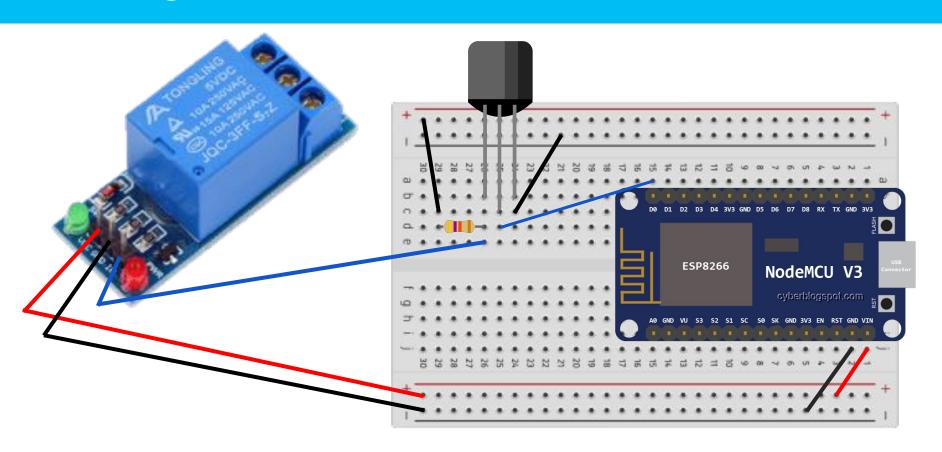




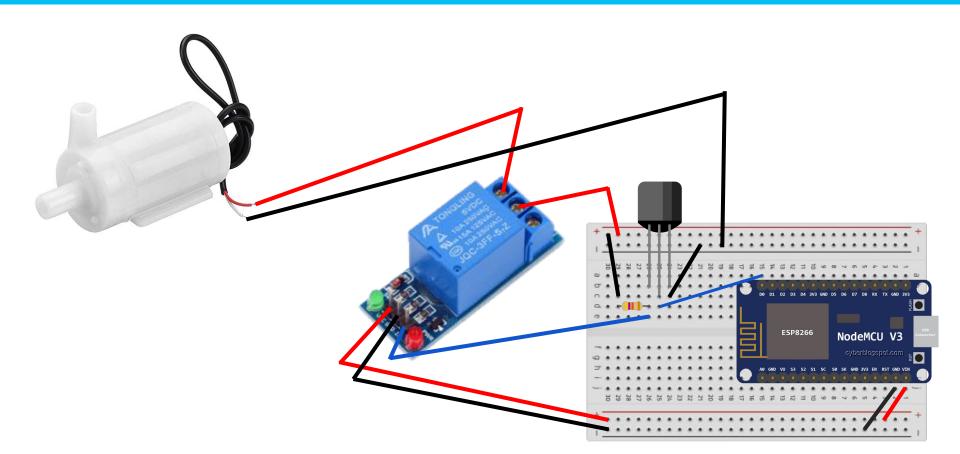




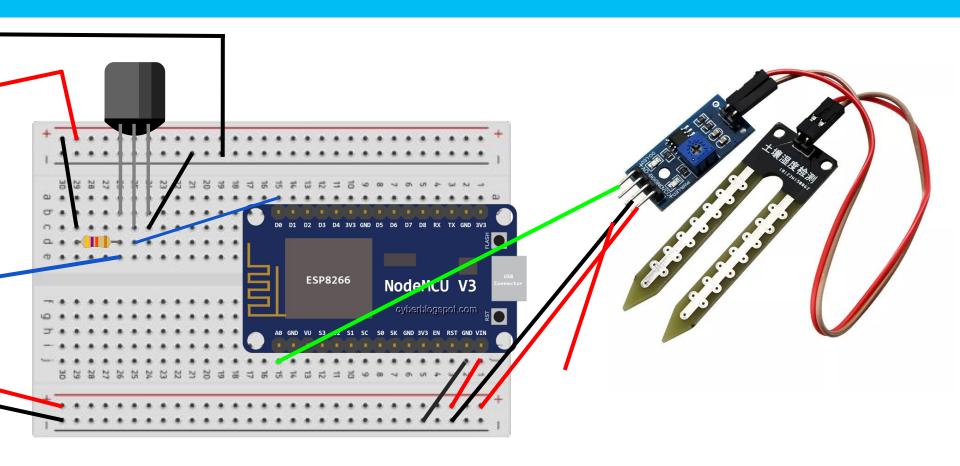




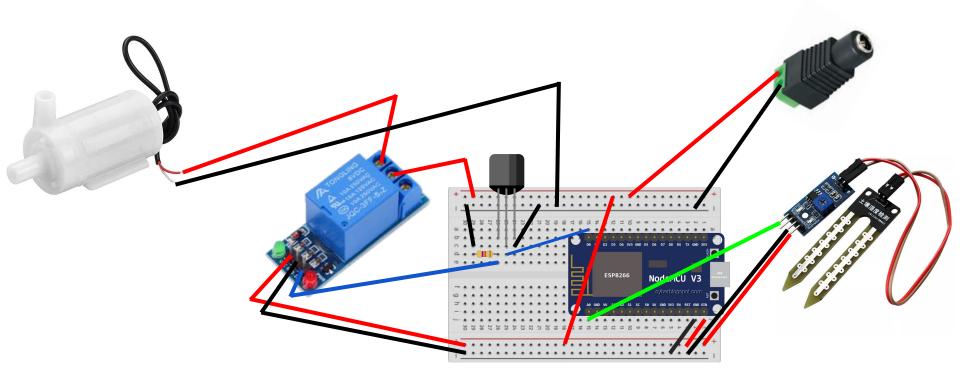






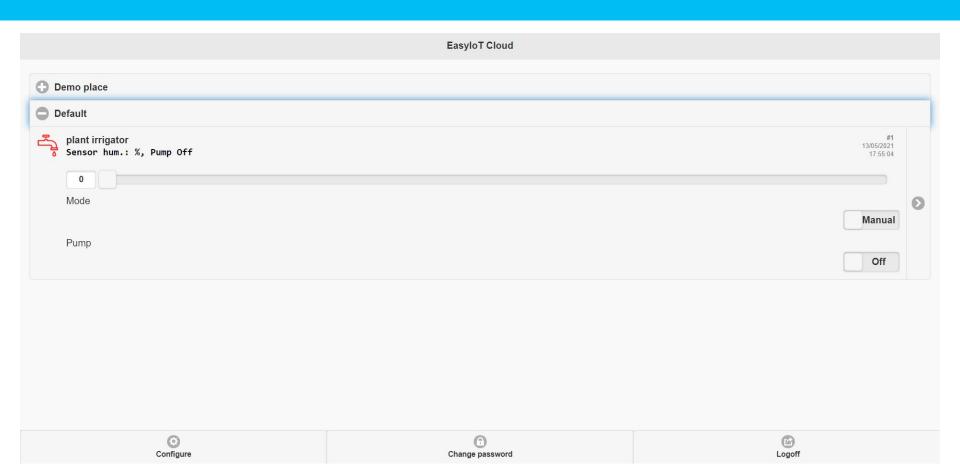






Servidor de IOT

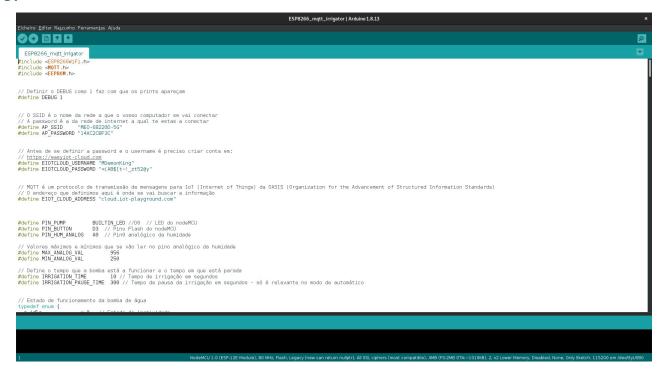




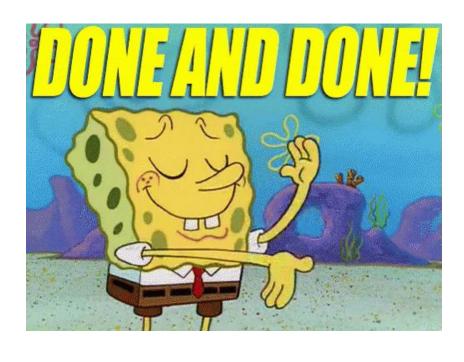
Código



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