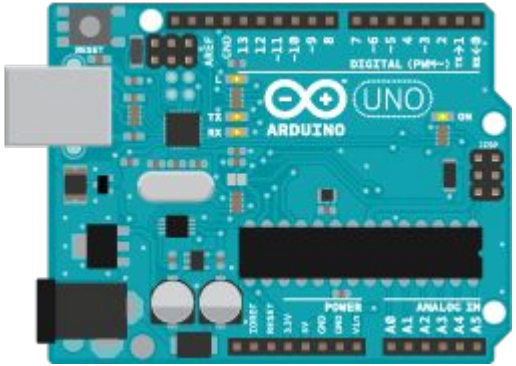
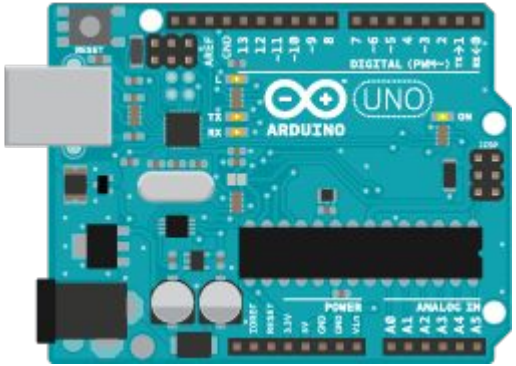
Projetos

Agora é a sua vez!

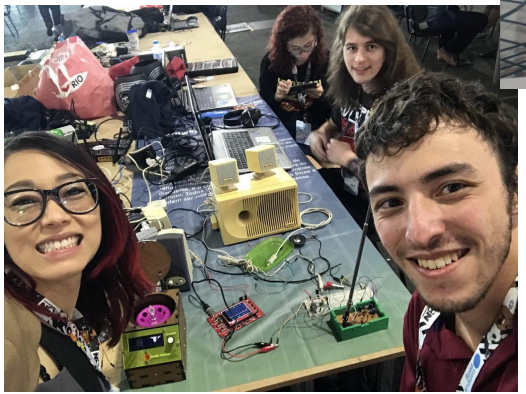
Hardware Livre
USP





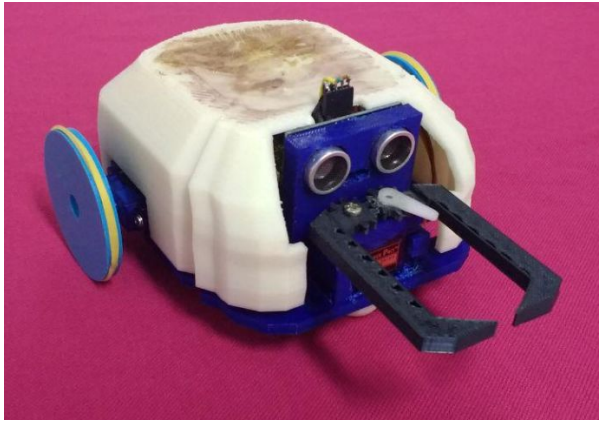
I WANT YOU FOR HARDWARE LIVRE USP

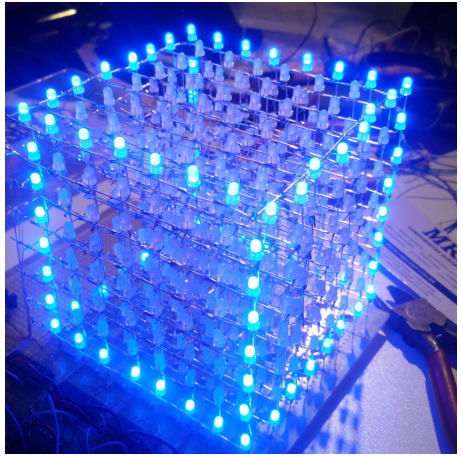
Motivos Para Frequentar o Grupo

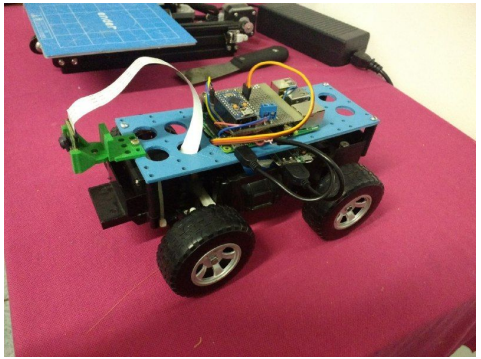


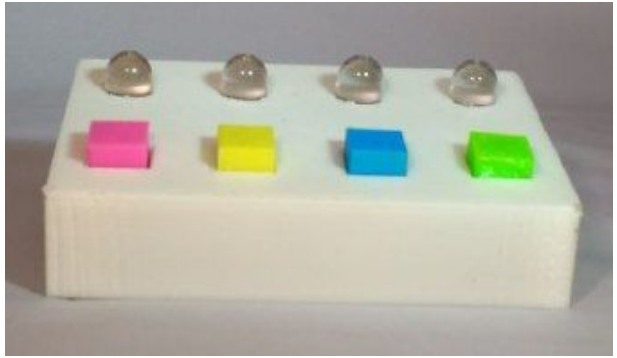
Motivos Para Frequentar o Grupo

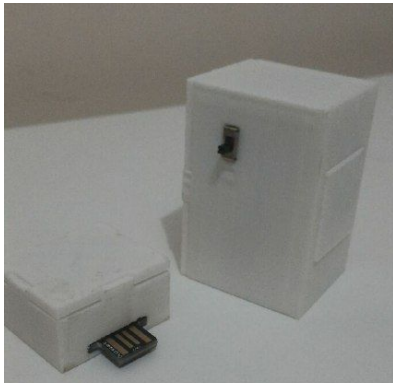
Projetos já “concluidos”



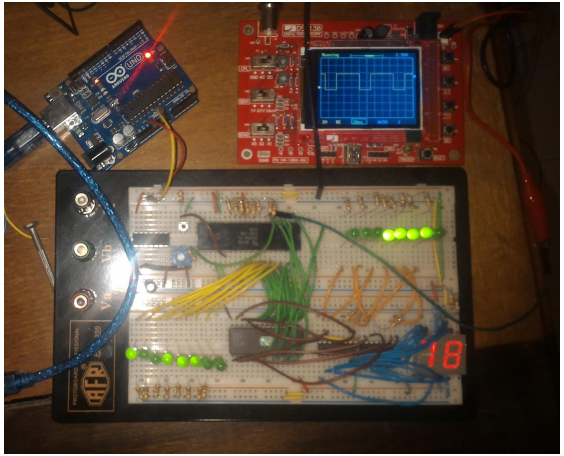


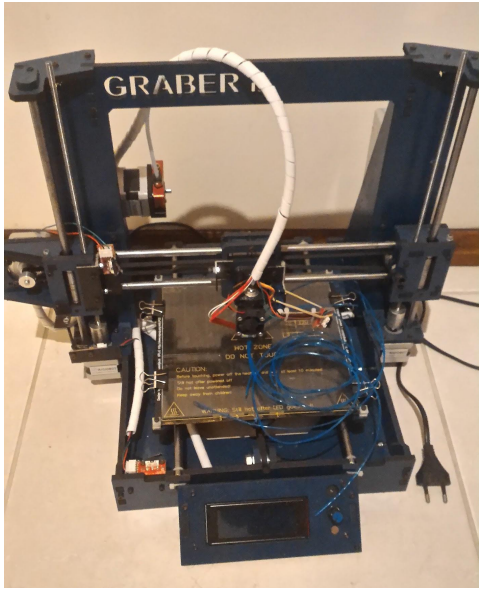


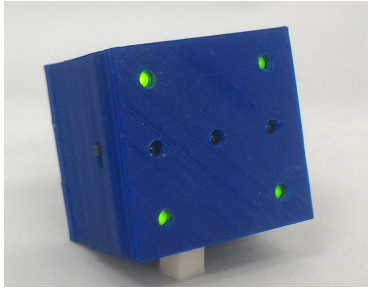




Projetos já “concluidos”



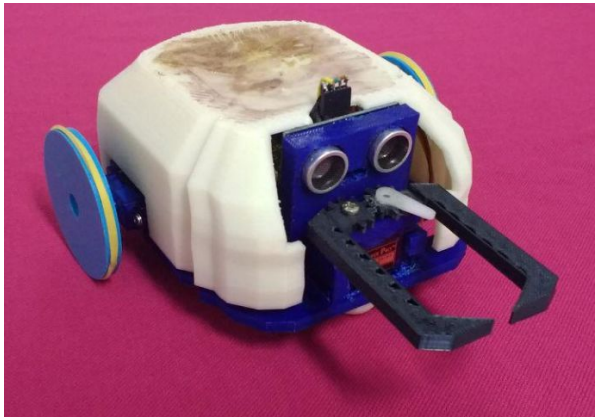


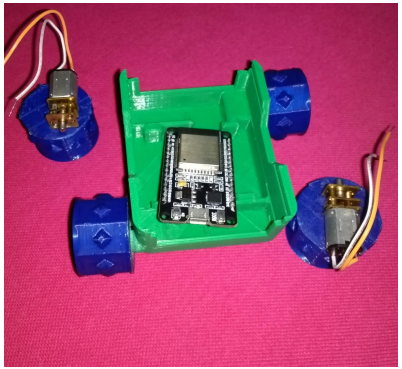


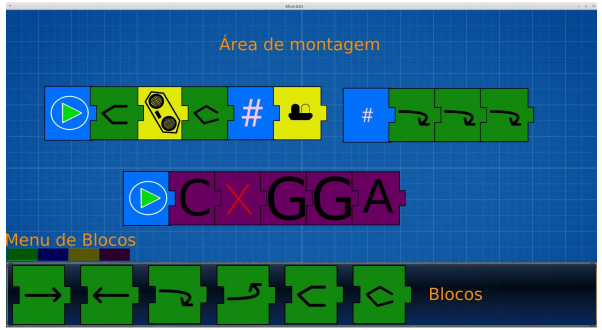
PROPOSTAS

“Mas eu? Eu não sei quase nada…”

Baratino





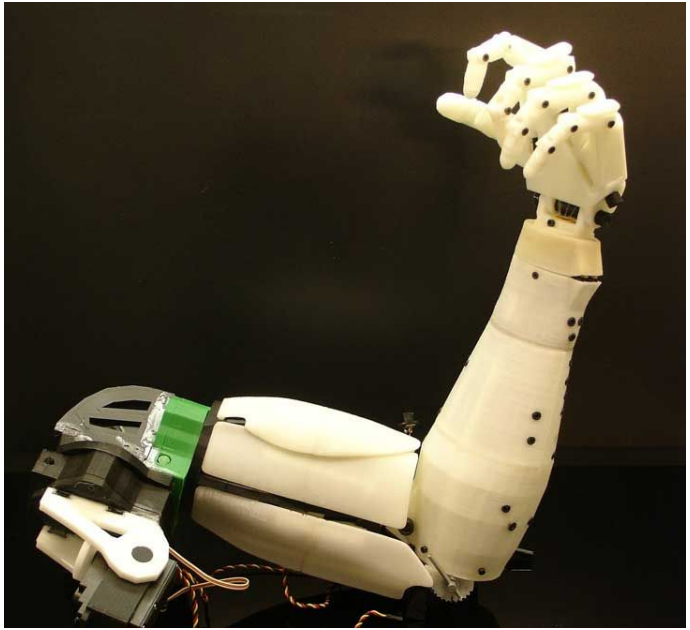


Dos mesmos criadores de Besourino!
Ideias exploradas:

- Comunicação Bluetooth;
- Protocolo UDP
- Servomotores;
- ESP8266;
- Sensores;
- Impressão 3D;
- Desenvolvimento Mobile (Apps)
- Python Kivy

https://docs.google.com/document/d/1TbGFI-4he4hQo4f8wG94xDAuL5ntXW3Q8y7FYis3iHU/edit?usp=sharing

Braço Robótico

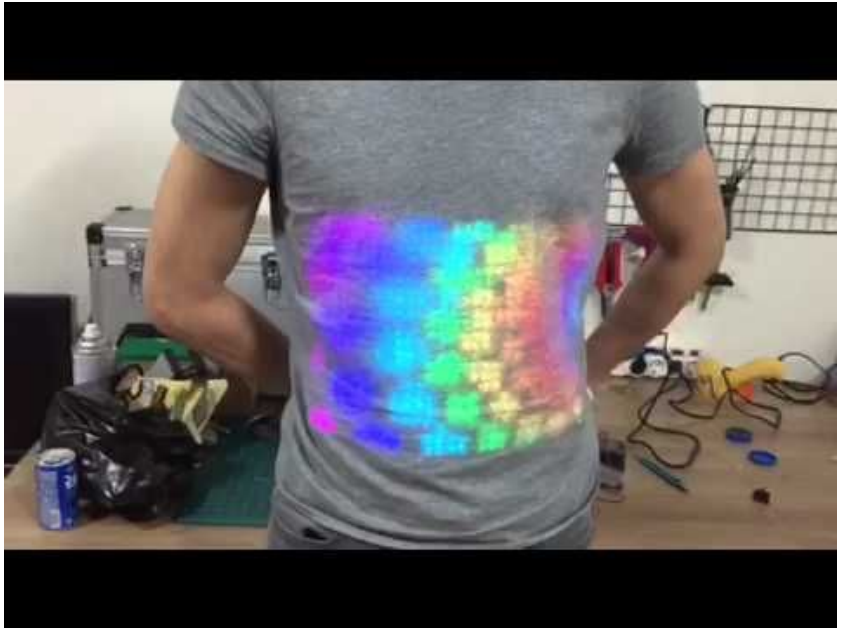


Ideias exploradas:

- Impressão 3D;
- Atuadores lineares;
- Servomotores;
- Mecânica;
- Prótese mais acessíveis

https://docs.google.com/document/d/1QwGLln31gmhVcQhVe4nvfdFhrplUzATGYogpC1qfT84/edit?usp=sharing

Camisas Eletrônicas



Ideias exploradas:

- Tecnologias vestíveis;
- Aplicação direta de embarcados;
- Matrizes de LED;
- Sensores;

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Chapéu seletor 2.0

Ideias exploradas:

- Comunicação bluetooth;
- Corte laser;
- Impressão 3D;
- Servo motores;
- Gestão energetica;
- Eletrônica básica;

https://docs.google.com/document/d/1M3QyLQ5brncVuOu0Rvq2ef6iOqfvfOr-Q1sEwtoz7YI/edit?usp=sharing

Guitarra MIDI

Ideias exploradas:

- Amplificadores;
- Conversores AD;
- Captadores de guitarra;
- Impressão 3D;

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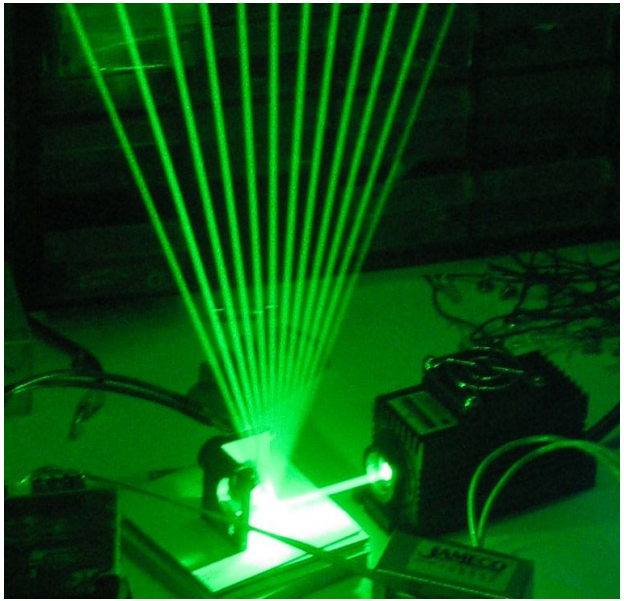
Harpa Laser



Ideias exploradas:

- Multiplexação optica;
- Motores de Passo;
- Controle de laser de potência;
- Sensores;
- Tratamento de sinais básico;

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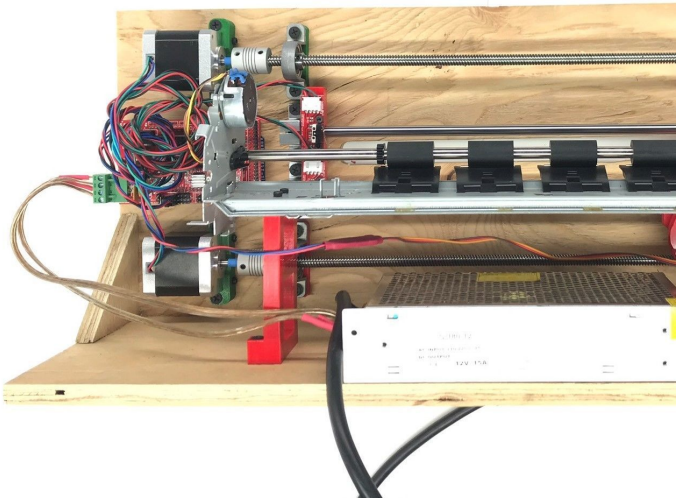
Impressora Braile

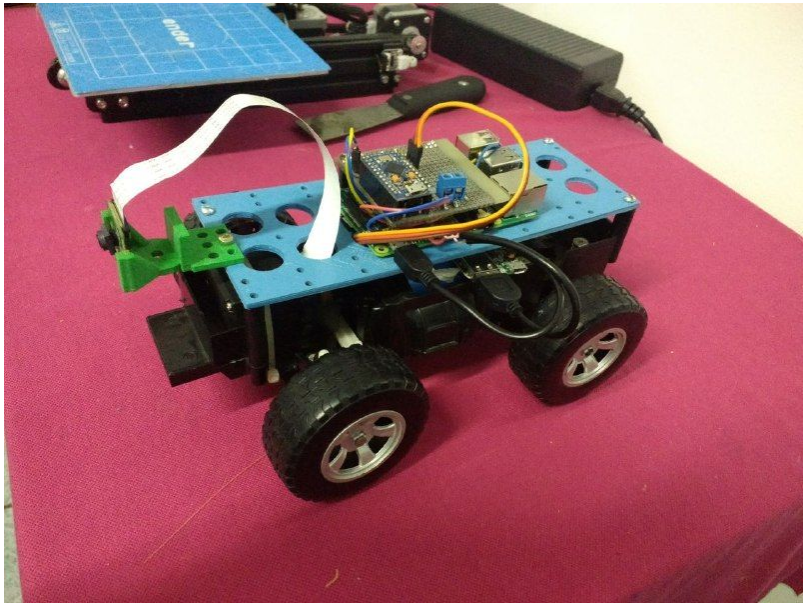


Ideias Exploradas:

- Impressão 3D;
- Braile;
- Motores de Passo;
- Drivers de potência;
- Corte laser;

https://docs.google.com/document/d/1iU_IA7jFKPd9UFSQoEdTtJ5YzS9ywPdZfGlhTxwnnvI/edit?usp=sharing

PiCar



Ideias Exploradas:

- Raspberry Pi;
- Processamento de imagens;
- Impressão 3D;
- Sistemas embarcados;
- Machine Learning;
- Sensores de distância
- Veículos Autônomos

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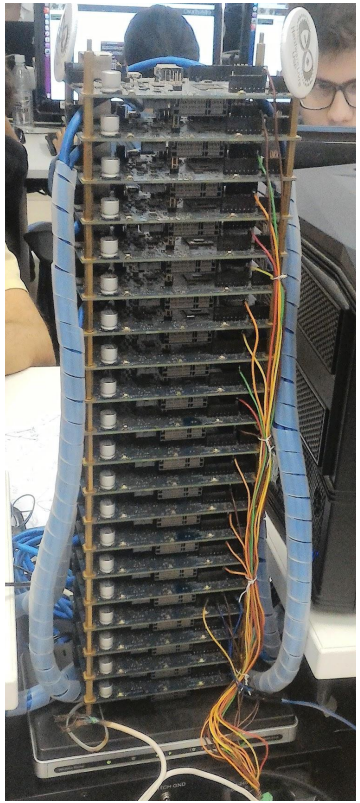
Cluster



Ideias Exploradas:

- Computação alto desempenho;
- Linux embarcado;
- Redes;
- Prog. Paralela;

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Synth 2.0

Ideias Exploradas:

- Processamento de aúdio;
- Computação musical;
- Protocolo MIDI;
- Desenvolvimento de instrumentos musicais;

https://docs.google.com/document/d/1dnsEk5ulhcmTvuir1s9qQCmdbwTnUyoXtb7EfAywcec/edit?usp=sharing

UV Printer

Ideias Exploradas:

- Timers;
- Matriz de Leds;
- Corte laser;
- Impressão 3D;

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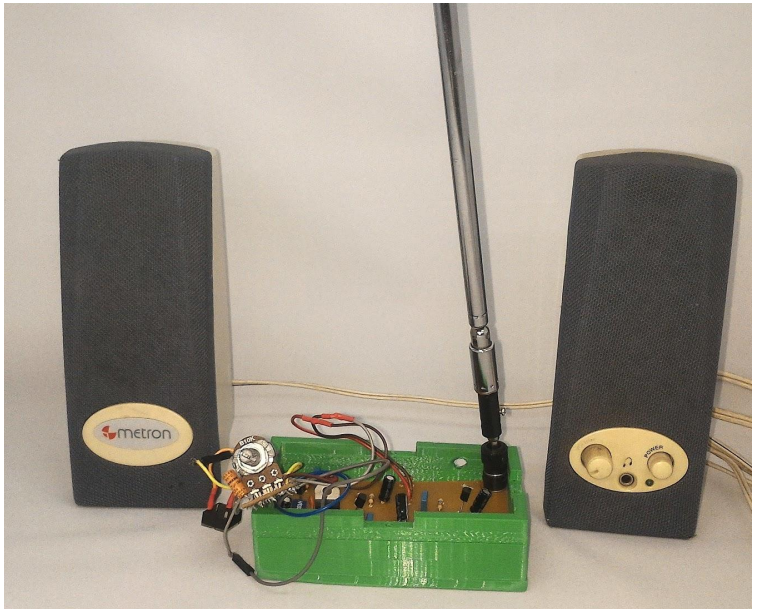
Theremin 2.0



Ideias Exploradas:

- Conversores AD
- Processamento de sinais
- Eletronica
- Impressão 3D

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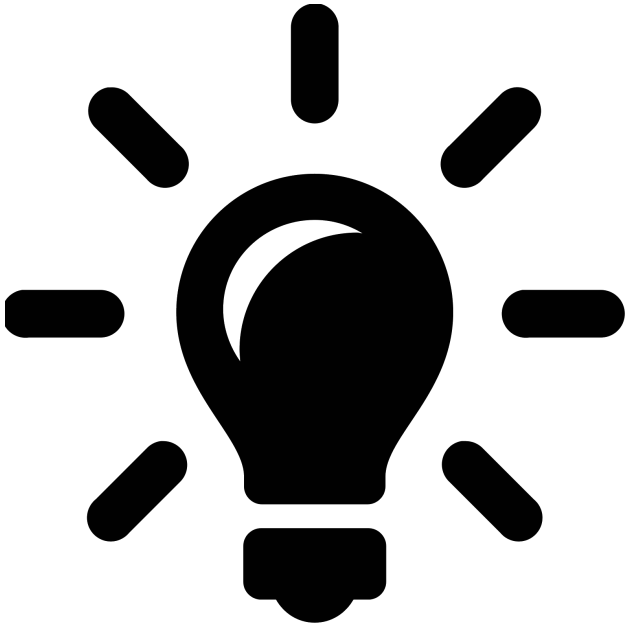
Qual é a sua idéia ???