

The background features a person's hands holding a smartphone, with a network of white lines and dots overlaid. A central red circular logo with a white stylized 'e' and a fan-like graphic is connected to four other red circles. The text 'embarcadero' and 'conference' is written in a bold, black, sans-serif font, separated by the central logo.

embarcadero conference



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Arduino + DataSnap = IoT Made in Delphi

Laercio Guerço Rodrigues



IoT - Organizando o Caus





Arduino - Tecnologia - “Um Caminho”

- Hardware
- Software
- Opensource



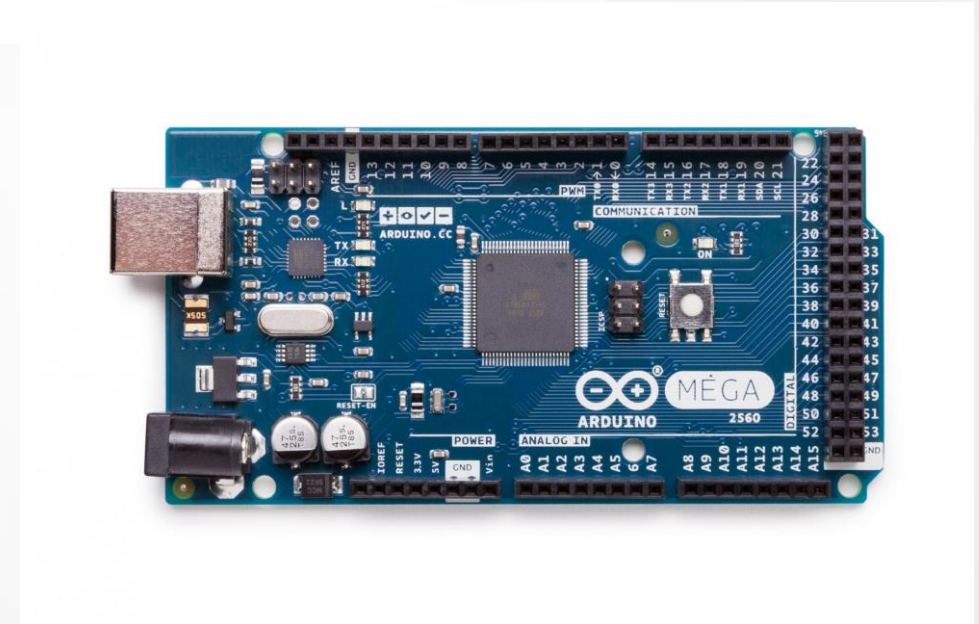
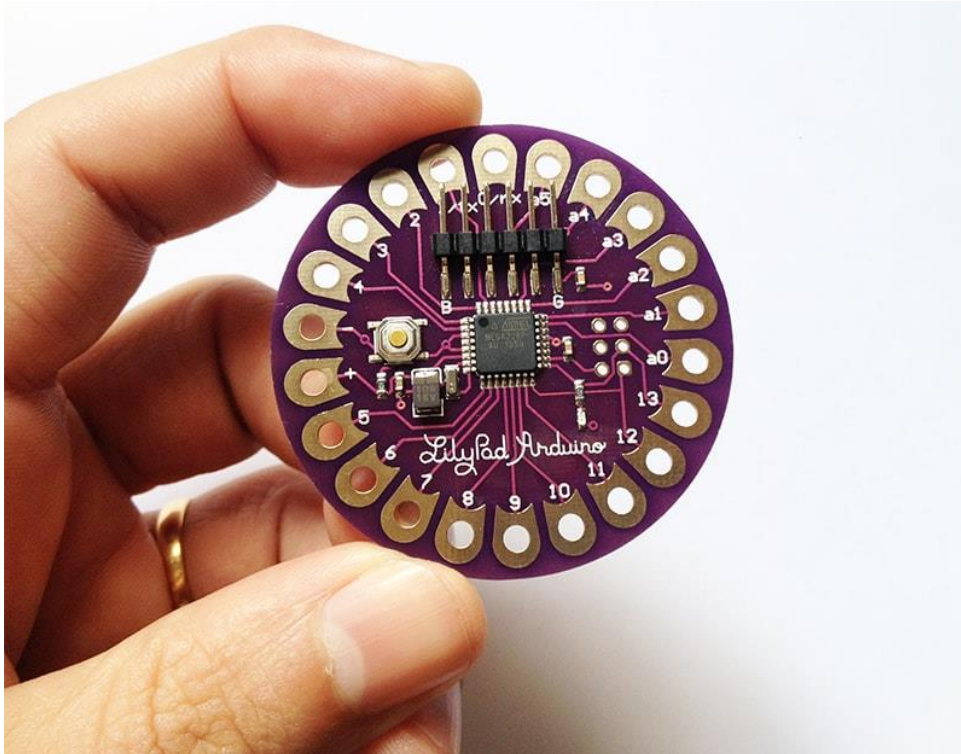


Controladoras - “Variedades”

- Arduino UNO
- Arduino MEGA
- Arduino NANO
- Arduino LilyPad
- Outras ...

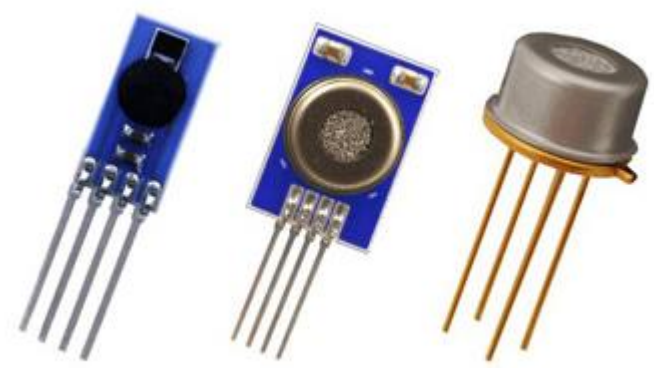


Controladores





Shields - “Leitores – Sensores - Coisas”





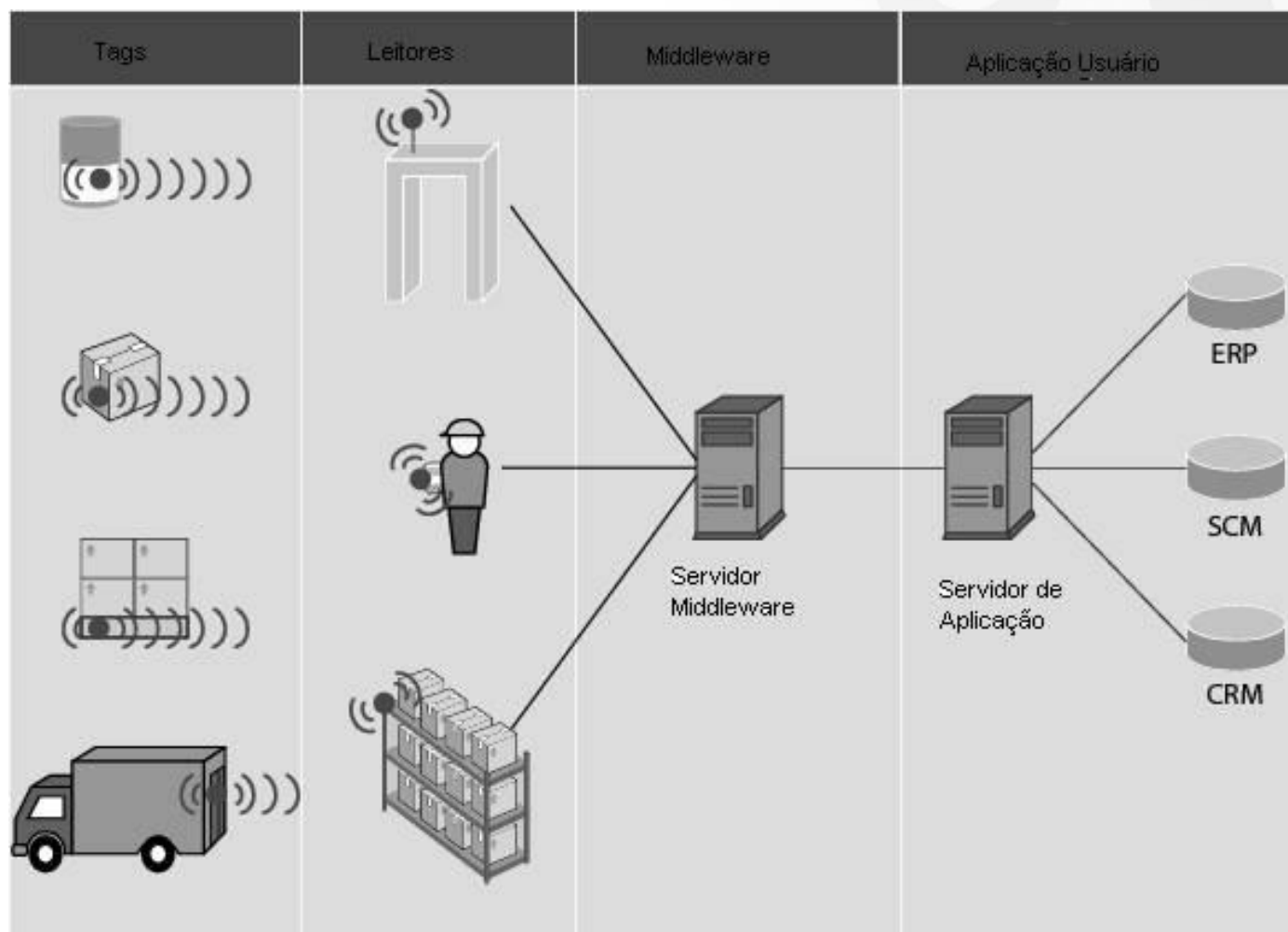
IoT - Home

Diagrama de un hogar inteligente (IoT - Home) con sensores y dispositivos conectados:

- Sensor Magnético
- Sensor de temperatura y de humedad
- Sensor de gas
- Sensor de humo
- Sensor de inundación
- Sensor de movimiento
- Brazalete de alerta o pulsera médica
- Sirena externa
- Control remoto
- Reloj Checador
- Panel de control
- CRI: Contacto remoto inmediato
- Sensor de impacto



O Mundo Controlado



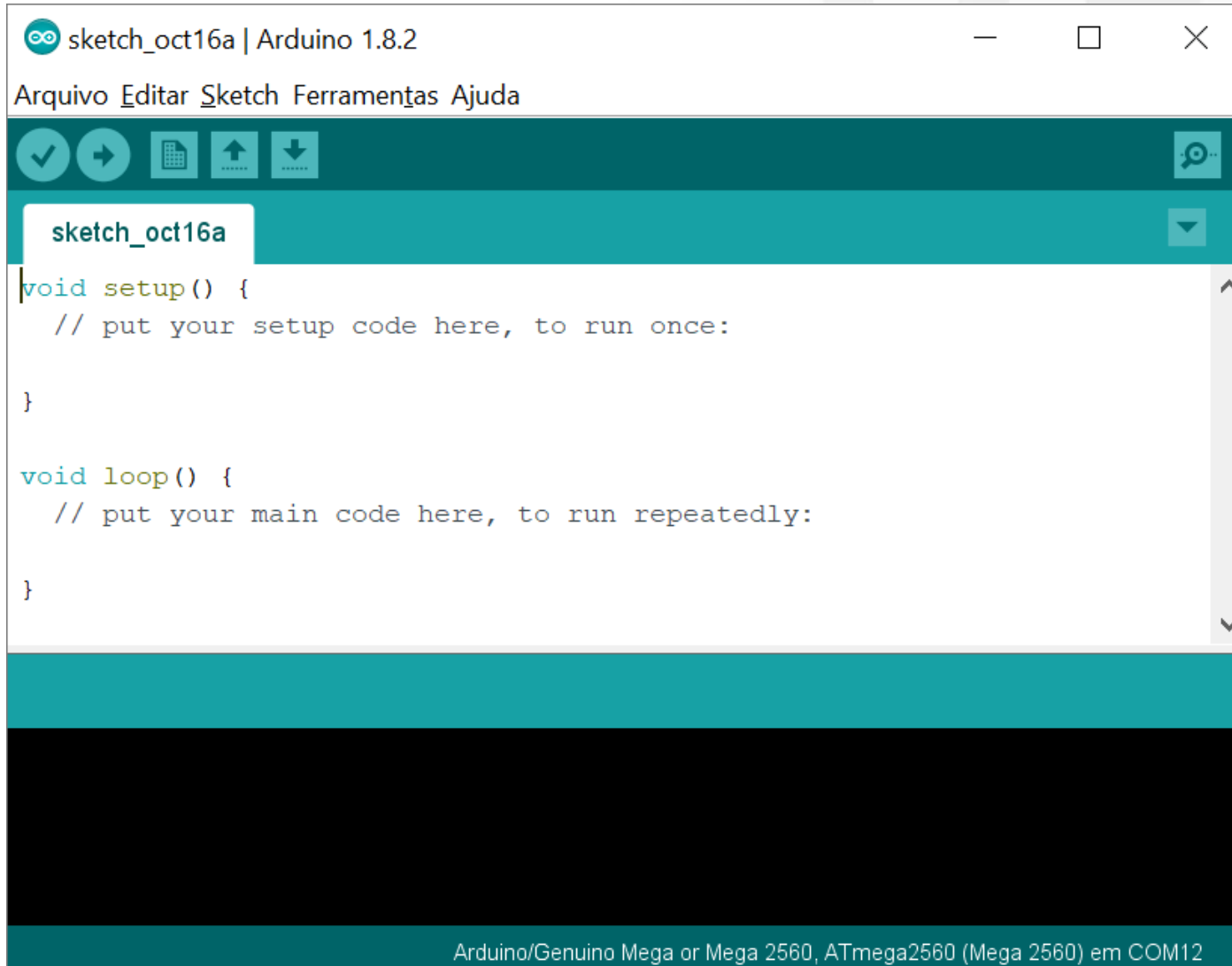


Software - “Quem Realmente Controla”

- Lógica Embarcada nas Controladoras
- Lógica em Aplicativos de Rede
- Lógica em Aplicativos Mobile
- Lógica em Aplicativos Datasnap



Software Arduino Embarcado



The screenshot shows the Arduino IDE window titled "sketch_oct16a | Arduino 1.8.2". The menu bar includes "Arquivo", "Editar", "Sketch", "Ferramentas", and "Ajuda". The toolbar contains icons for saving, running, uploading, and downloading. The sketch name "sketch_oct16a" is displayed in the top bar. The main code editor contains the following C++ code:

```
void setup() {  
  // put your setup code here, to run once:  
  
}  
  
void loop() {  
  // put your main code here, to run repeatedly:  
  
}
```

At the bottom of the window, a status bar indicates the board and port: "Arduino/Genuino Mega or Mega 2560, ATmega2560 (Mega 2560) em COM12".



Protocolos de Comunicação

- UDP
- TCP
- HTTP



Tecnologias de Comunicação

- Ethernet
- WIFI
- Bluetooth
- Rádio
- GPRS
- Arduino X Arduino – I2C



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// obrigado

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