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 Flipside

REALIZAÇÃO  
 Green Helmet

# ROADSEC

## 2023

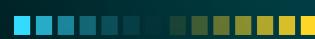
O MAIOR FESTIVAL HACKER DA AMÉRICA LATINA



15.07.23



**ROADSEC**  
**2023** 15.07.23



# **Tuya: a plataforma de IoT que está revolucionando a conectividade inteligente**



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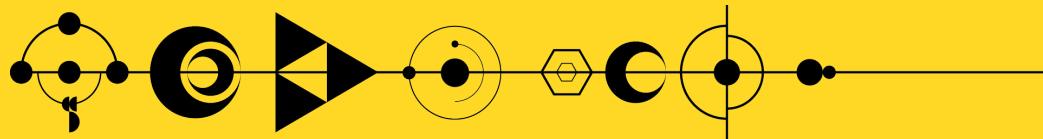


# Sileide Campos

Engenheira de Controle e Automação

Pós Graduanda em Data Science

MVP Embarcadero

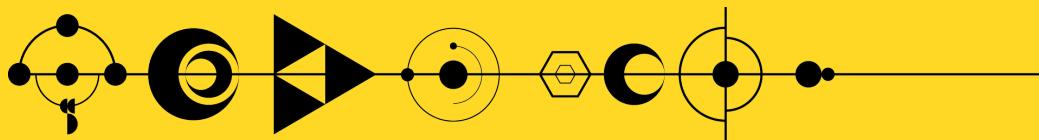


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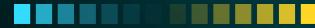


# Empresas que ninguém conhece



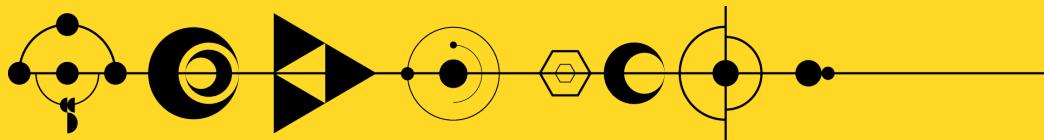
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2023

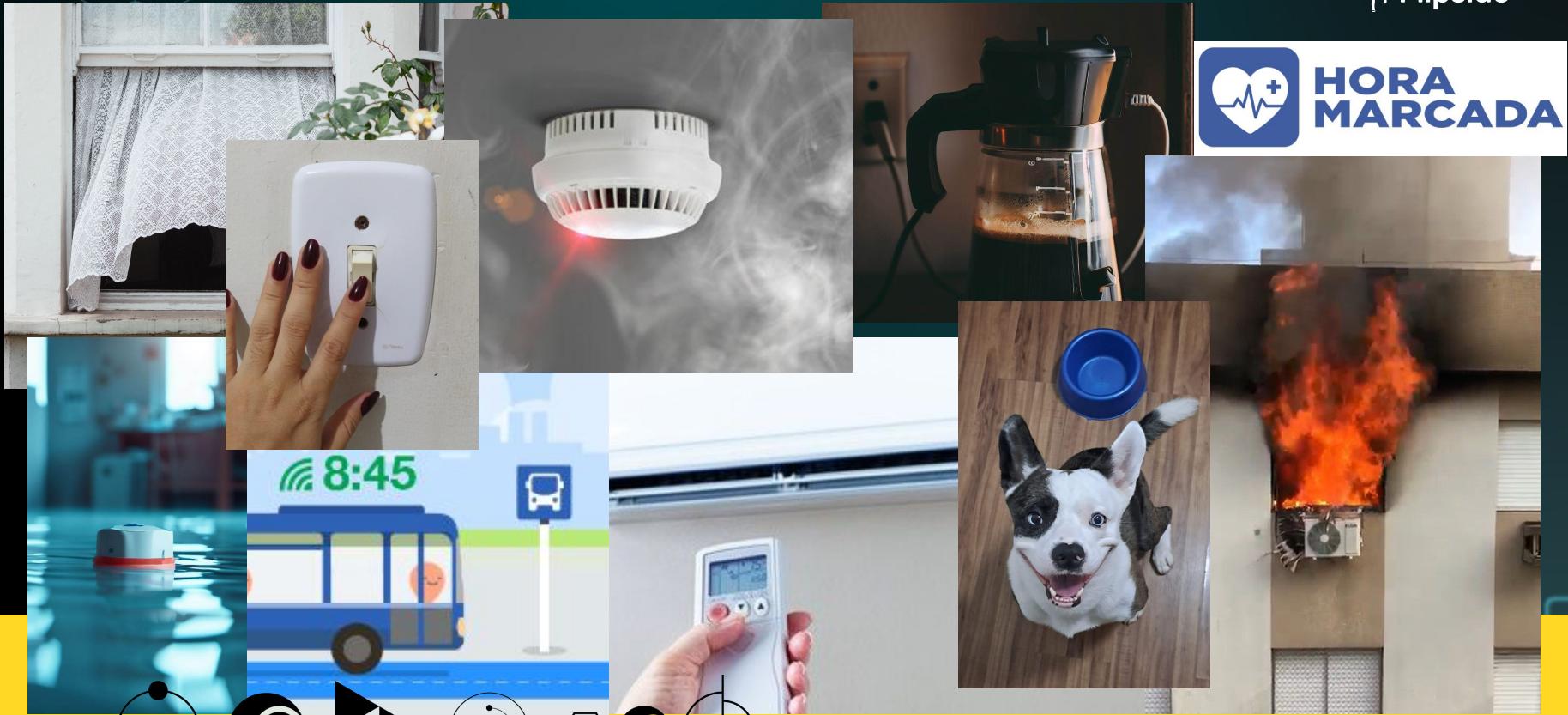
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# Internet das Coisas < IOT >

É uma tecnologia que permite a conexão e a comunicação entre dispositivos inteligentes, permitindo o controle de processos, serviços e objetos.





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eWelink



EKAZA



i2GO home



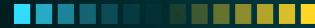
Nova Digital





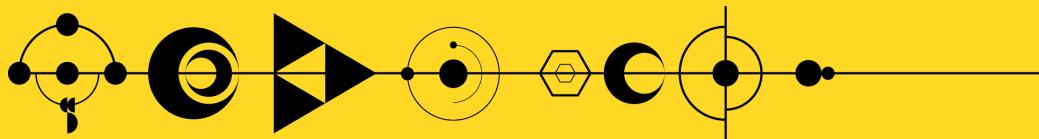
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2023

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# Plataforma Tuya

É uma tecnologia que permite a conexão e a comunicação entre dispositivos inteligentes, permitindo o controle de processos, serviços e objetos.





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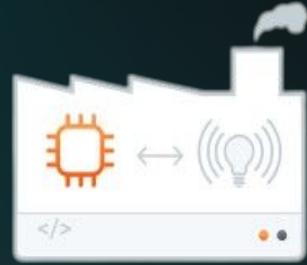


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Intelligence  
Inside

Desenvolvimento  
de Produto



Desenvolvimento  
de Aplicativo



Desenvolvimento  
em Nuvem

iot.tuya.com

tuya IoT Platform

Help Documents Tech Support English(EN) My Space

Overview Product App Cloud Data Operation Purchase VAS ↗

Welcome to Say Hello to IoT Show Platform Guide

Recently Visited Development Development OEM App API Explorer API Log Cloud Services

Developer Console

Product Development Cloud Development App Development

Total Products Developing Completed

2	2	0
---	---	---

Product Management Create

 lampada Custom To-Do4

 sensorbutton TuyaLink Developing

Documentation More ↗

- How to Create Smart Products With No Code?
- What Are Products and Product Functions?
- What is MCU Low-Code Development?
- What is TuyaOS?

What's New

- 2023-05-04 TLSR8258 Platform Li
- 2023-03-31 Major Functional Upg
- 2023-03-22 Solutions for the Targ

Recommended Solutions

Popular New & Noteworthy

 Smart Water Meter Solution

 One-stop R&D and mass ...

**tuya IoT Platform** | API Explorer | smartwatch | Switch Project ▾

Send commands ⓘ

Parameter(Request Method: POST)

**Params**

\* device\_id ⓘ :

**Body** [Switch to Code](#)

\* commands ⓘ : [

{

\* code ⓘ :

\* value ⓘ :

}

+

]

During API debugging, the platform uses the authorization key (Access ID & Access Secret) of the current project for caution.

**Request URL**

```
curl --request POST "https://openapi.tuyaus.com/v1.0/iot-03/devices/ebe0dfc8afbd253dba5l3b/commands" --header -header "mode: cors" --header "Content-Type: application/json" --header "sign: 9C8C3626C0211E0FD97321E7FEA216" --data "[{"commands": [{"code": "switch_1", "value": "true"}]}]"
```

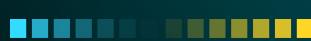
**Response**

```
{
  "result": true,
  "success": true,
  "t": 1687640352301,
  "tid": "f88cf8412d111eea9198a65b56d89fe"
}
```

<https://openapi.tuyaus.com/v1.0/iot-03/devices/ebe0dfc8afbd253dba5l3b/commands>



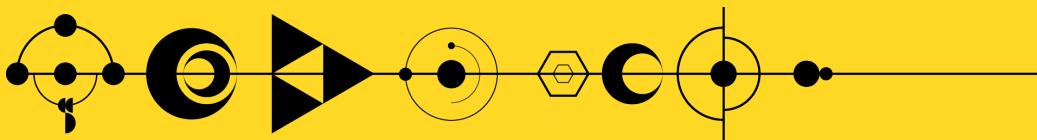
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# Possibilidades



- Monitorar
- Analisar
- Criar Aplicações

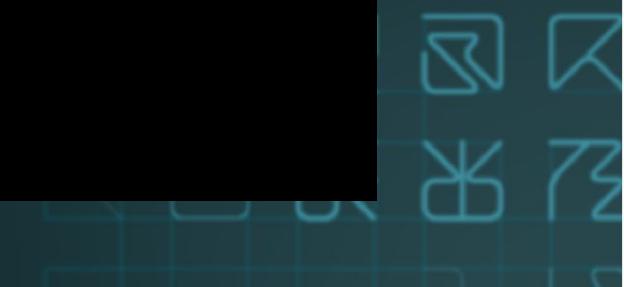
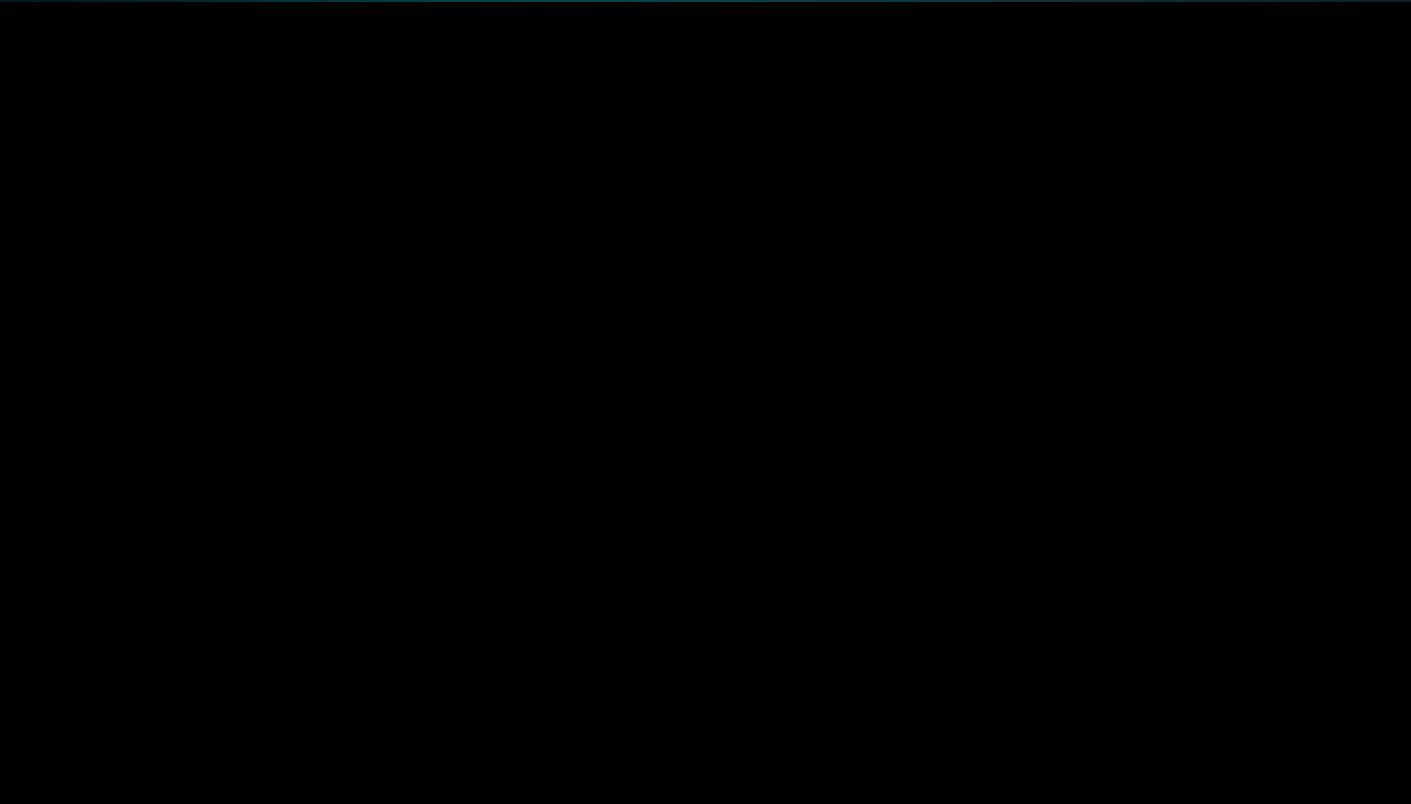




—RS23



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RESTDebugger

REST Debugger 10.5  
Embarcadero Technologies

**Request**

Request Parameters Authentication Connection

Method: GET URL: https://openapi.tuyaus.com

Content-Type: application/json

Custom body:

Request Parameters Authentication Connection

Resource: /v2.0/cloud/thing/batch?device\_ids=6043675070039fcfb116

Request Parameters: [HEADER] sign\_method=HMAC-SHA256

### Response

[https://openapi.tuyaus.com/v2.0/cloud/thing/batch?device\\_ids=6043675070039fcfb116](https://openapi.tuyaus.com/v2.0/cloud/thing/batch?device_ids=6043675070039fcfb116)  
200 : OK - 596 bytes of data returned. Timing: Pre: 0ms - Exec: 234ms - Post: 0ms - Total: 234ms

Headers Body Tabular Data

Content is valid JSON

JSON Root Element:

```
{  
  "result": [  
    {  
      "active_time": 1668730701,  
      "category": "cz",  
      "create_time": 1643895921,  
      "custom_name": "Ventilador",  
      "icon": "smartV/iconV/ay1540090774726g5666\\95256d0d3029cd7c94e3d672021e8fc9.png",  
      "id": "6043675070039fcfb116",  
      "ip": "187.44.245.208",  
      "is_online": false,  
      "lat": "-12.9344",  
      "local_key": "5dc8f2e60f54b937",  
      "lon": "-38.3763",  
      "model": "EKNX-T005",  
      "name": "Tomada Inteligente",  
      "product_id": "7idqwru2rbloirha",  
      "product_name": "Tomada Inteligente",  
      "sub": false,  
      "time_zone": "-03:00",  
      "update_time": 1678043816,  
      "uuid": "6043675070039fcfb116"  
    }  
  ],  
  "success": true,  
  "t": 1687804996402,  
  "tid": "5015ee0b145111ee9d71220dd637f8d3"  
}
```

Proxy-server disabled

# the developer's life

O SISTEMA DE VOCÊS ESTÁ  
DANDO ERRO NA  
HORA DE IMPRIMIR

DÁ MENSAGEM  
DE ERRO?



SIM, DIZ QUE NÃO  
ENCONTRA A IMPRESSORA

A IMPRESSORA  
ESTÁ LIGADA?



NÃO SEI.  
ELA FOI PRO CONSERTO

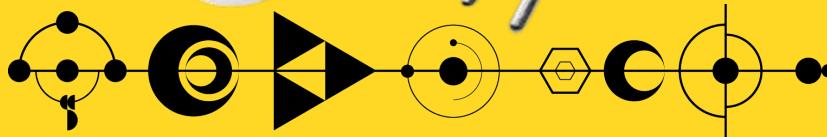
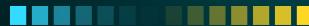
-PLOFT-



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D Log Tomada

Status Consumo Log Retorno Status

Início: 26/06/2023 00:00:00

Fim: 26/06/2023 23:59:59

Buscar Log

Corrente: 0,093A  
Potência: 5,9W  
26/06/2023 16:27:53

Corrente: 0,096A  
Potência: 6,1W  
26/06/2023 16:27:23

Corrente: 0,035A  
26/06/2023 16:24:16

Ativado  
Desativado  
26/06/2023 16:24:00  
26/06/2023 16:23:53

Corrente: 0A  
26/06/2023 16:22:55

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D Log Tomada

Status Consumo Log Retorno Status



Ligado

D Log Tomada

Status Consumo Log Retorno Status

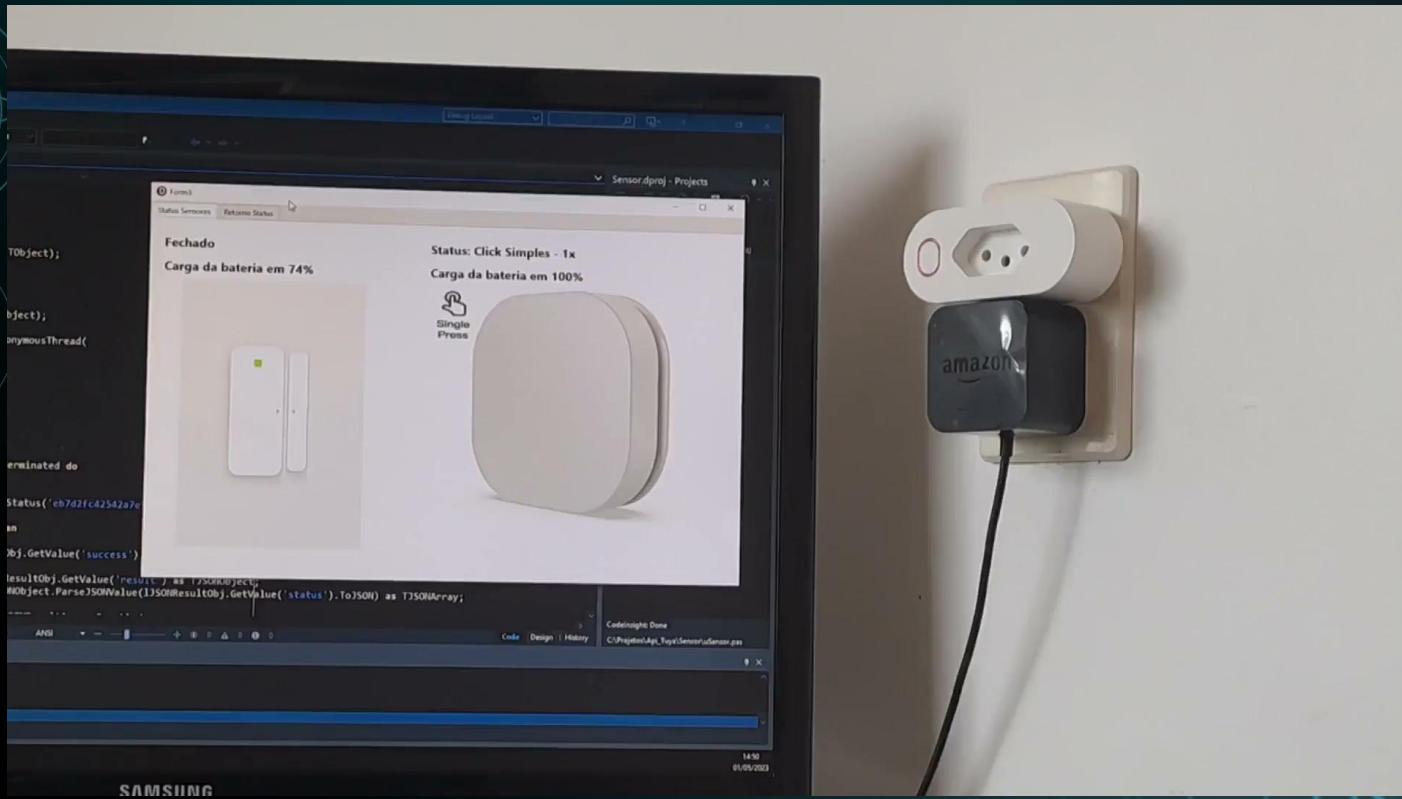
Tempo Real:

Potência: 7,6W

Tensão: 130,4V

Corrente: 0,035A





# ROADSEC 2023 15.07.23



# ROADSEC

## 2023

15.07.23



Potência Ventilador

152

150

148

146

144

142

140

138

136

134

132

130

128

126

124

122

120

118

116

114

20:40

20:45

20:50

20:55

21:00

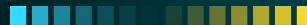
Status

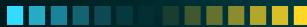


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15.07.23

## Sileide Campos

Engenheira de Controle e  
Automação  
[sileidecampos@gmail.com](mailto:sileidecampos@gmail.com)



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