



embarca tech | Residência Tecnológica em Sistemas Embarcados



MINISTÉRIO DA
CIÊNCIA, TECNOLOGIA
E INOVAÇÃO



QUEM SOMOS?



INSTITUTO
HARDWARE BR



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E INOVAÇÃO



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tech | Residência
Tecnológica
em Sistemas
Embarcados

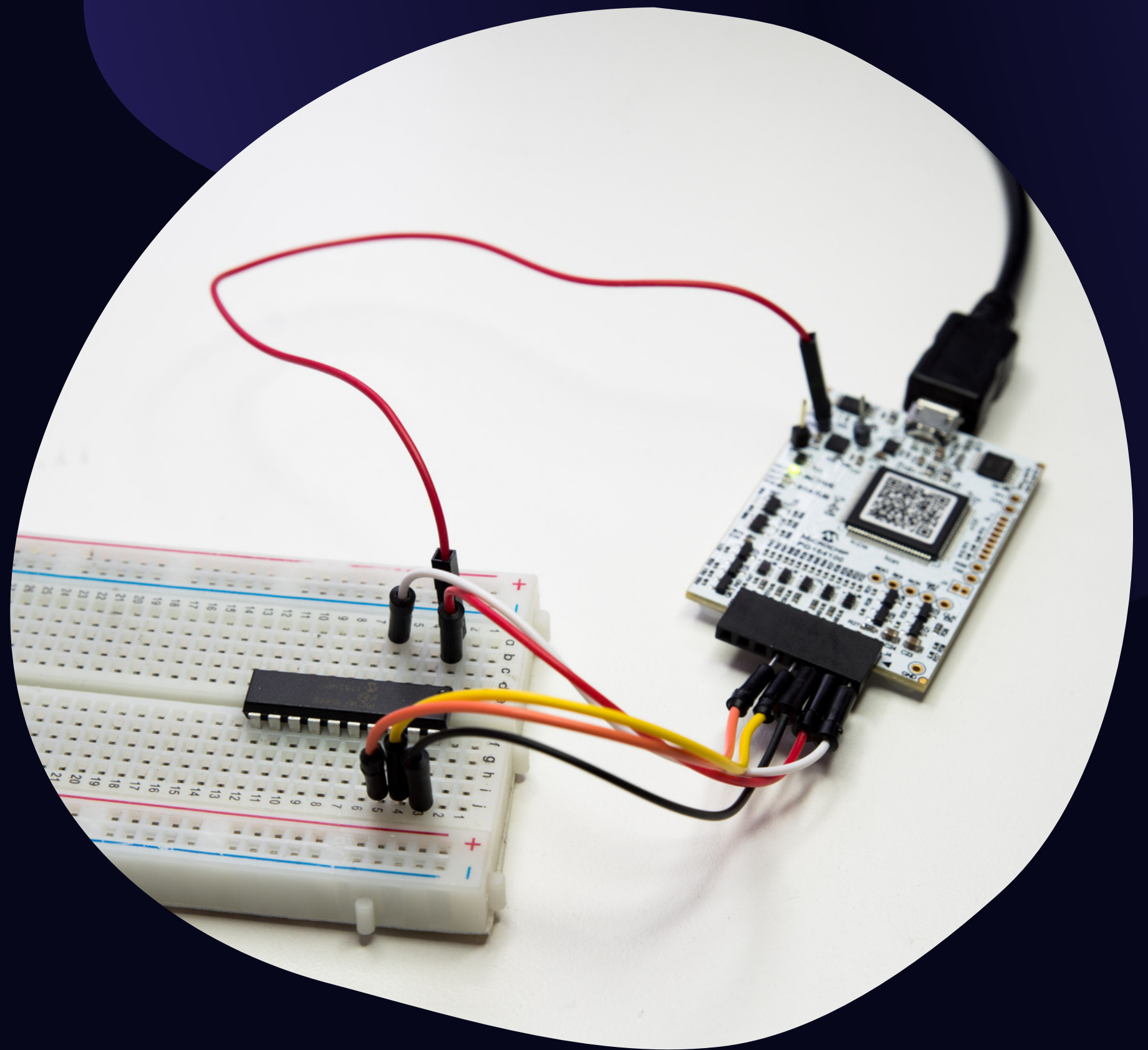


O QUE É O EMBARCATECH?

Treinamento em soluções de sistemas embarcados

Capacitação profissional para graduandos e já graduados

Engenharia, Ciência da Computação e áreas afins



Nossos Centros (FPGA)



Instituto Hardware BR DF



Instituto Hardware BR SP



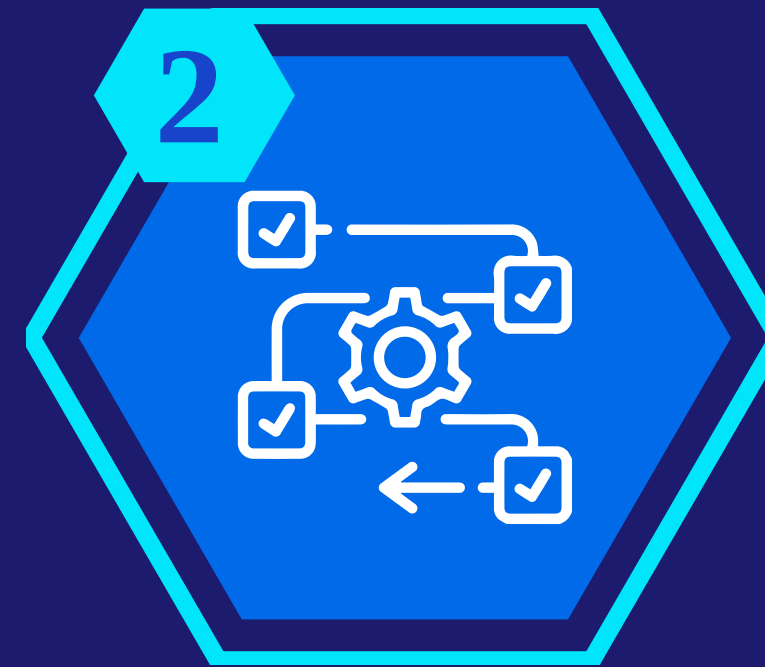
FASES DO PROGRAMA



Treinamento Técnico

Internet das coisas
Estudos de caso: Agricultura, Indústria,
Cidades Inteligentes e Logística
Online

(1000 estudantes)



Residência Tecnológica

Atividades práticas
Trabalho em empresas
Híbrido

(100 estudantes)

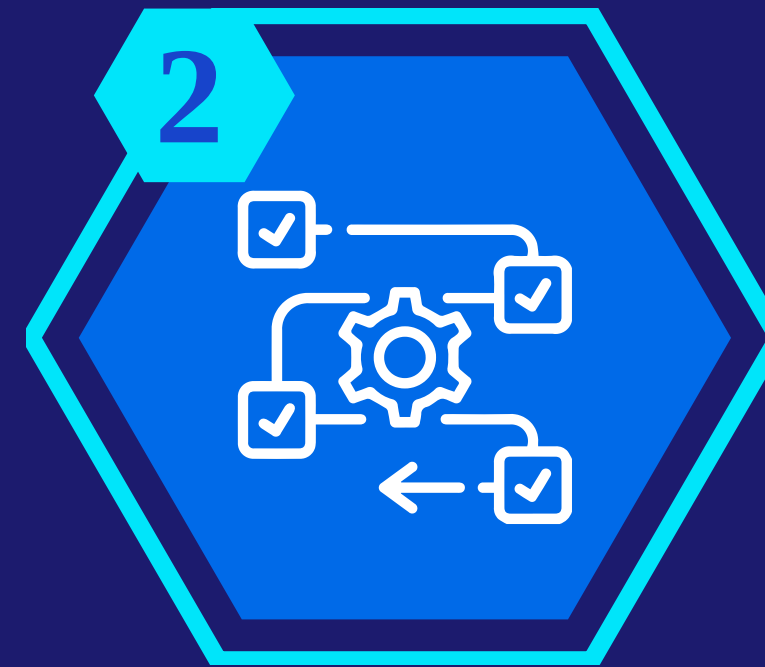
FASES DO PROGRAMA



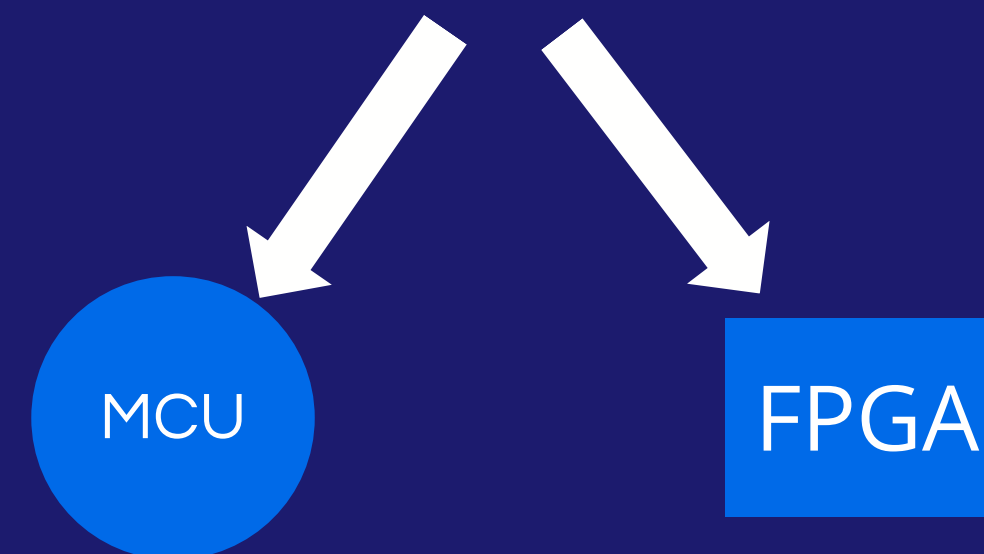
Treinamento Técnico

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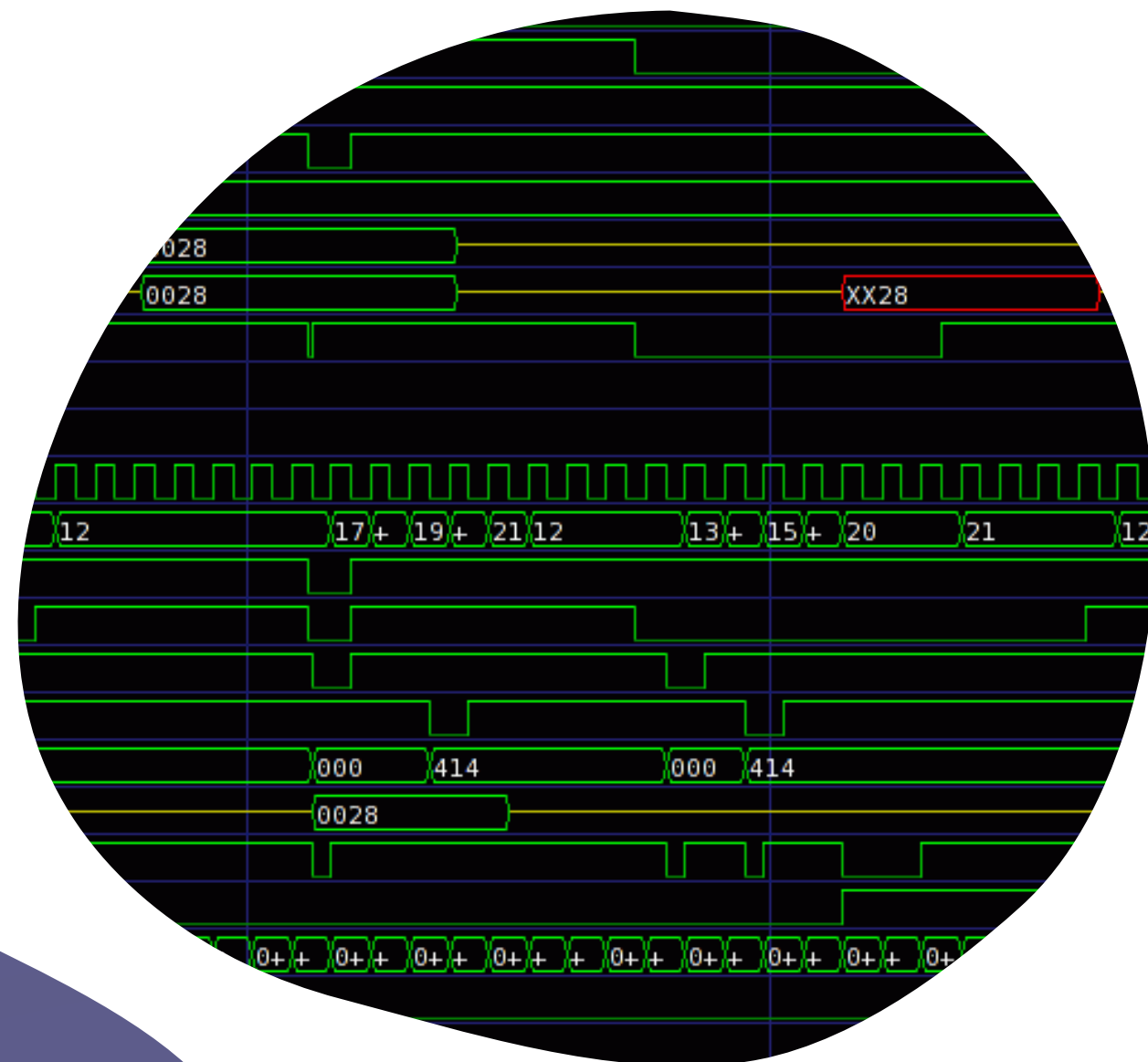


Residência Tecnológica

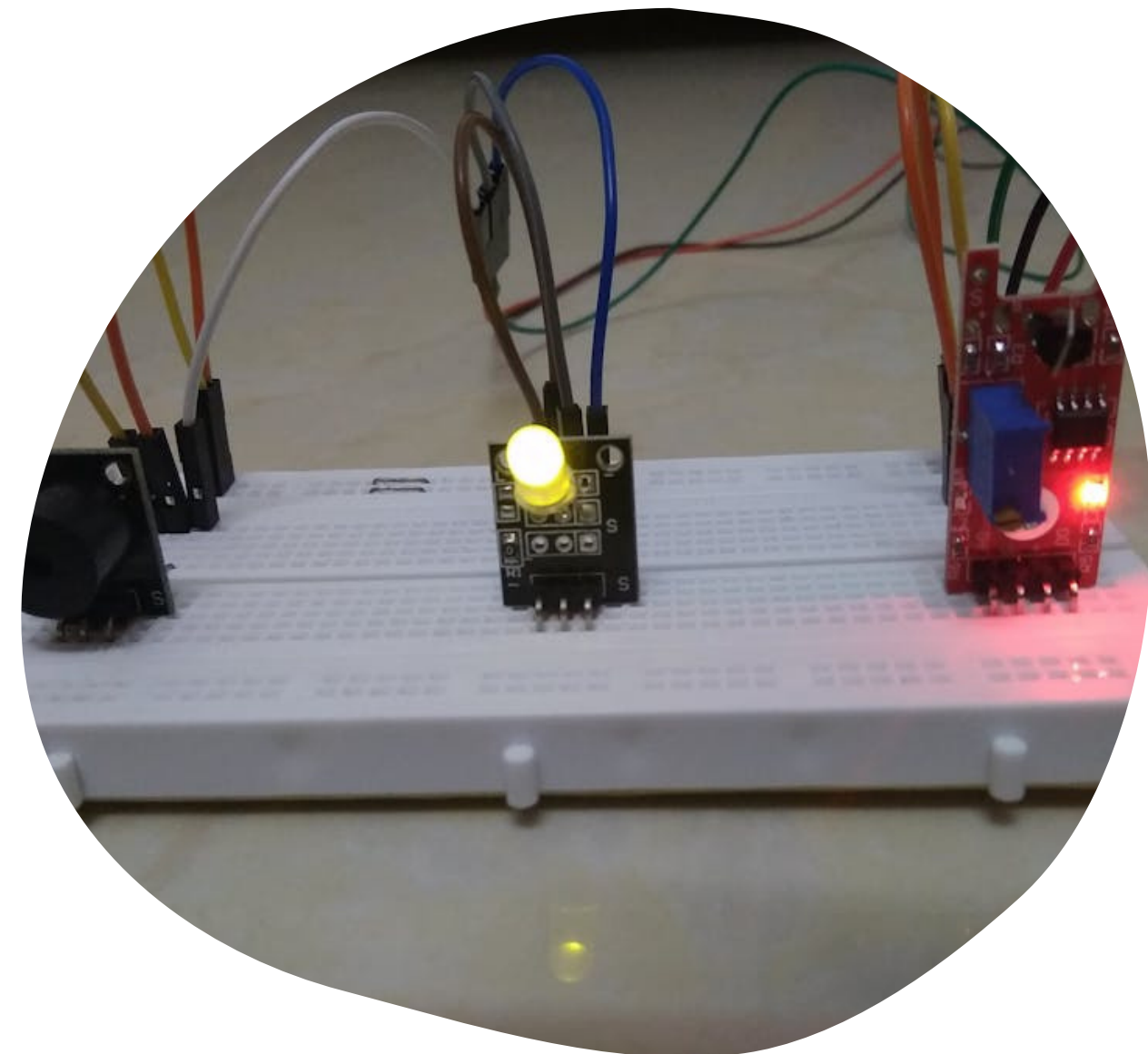


MÉTODOS DE ENSINO

Simulação



Prática



USAMOS FERRAMENTAS OPEN-SOURCE

IVERILOG +
GTKWAVE

Simulação e formas
de onda



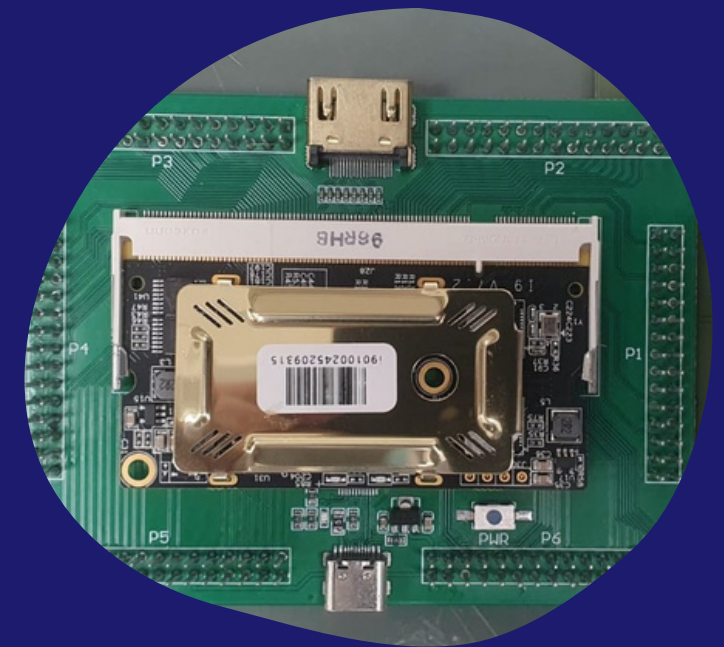
YOSYS

Compilação e síntese



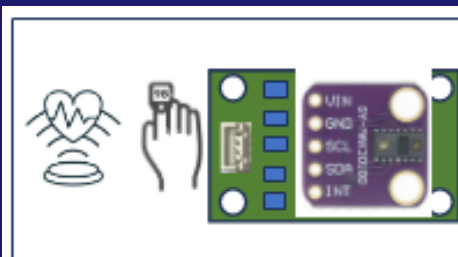
COLORLIGHT I9*

Hardware real, para
prototipação

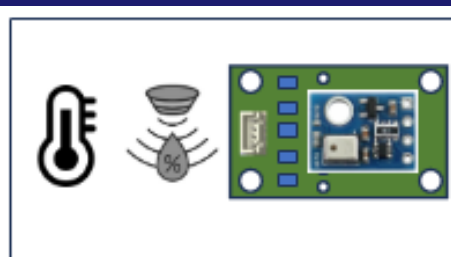


*Adaptada para os
conectores da BitDogLab

PERIFÉRICOS DO KIT



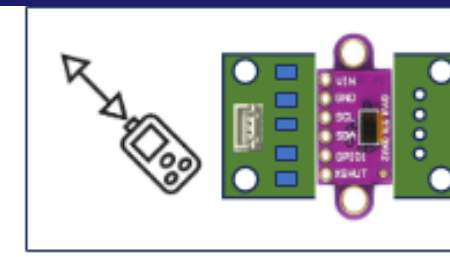
Oxímetro e Batimento
MAX30100



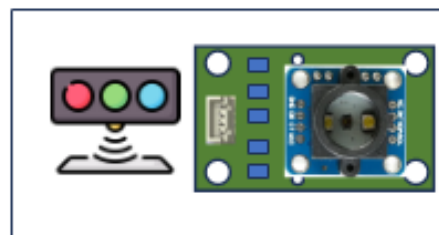
Temperatura e Umidade
AHT10



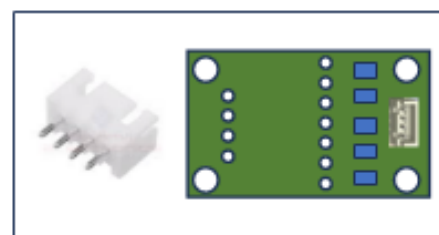
Cabos customizados
(11xI2C, 2xIDC)



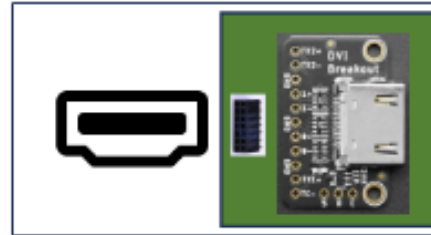
Distância a Laser
VL53L0X



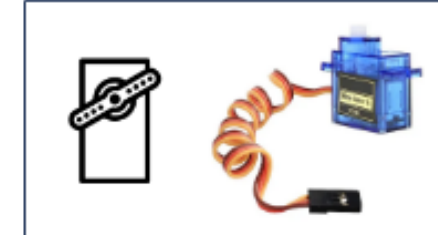
Sensor de Cor GY-33
TCS34725 I2C breakout



9x I2C/servo/uart
adaptadora



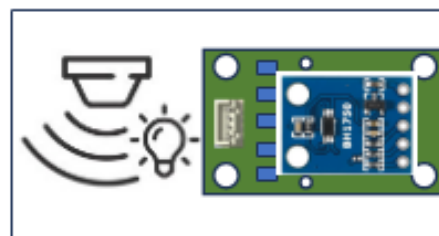
HDMI breakout
IDC direct



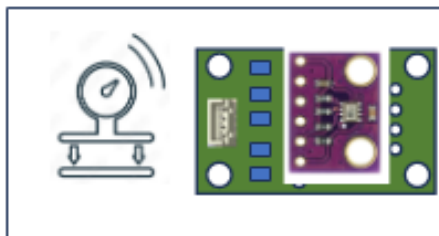
Servo Motor 9g SG90
I2C breakout



I2C Extender



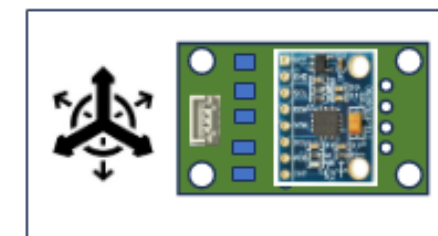
Iluminação BH1750
I2C breakout



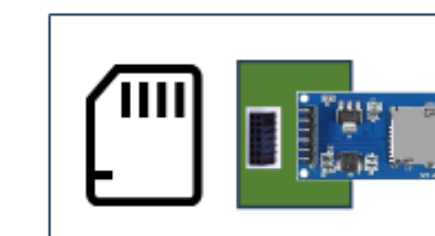
Temp/Pressão BMP280
I2C breakout



Teclado matricial
IDC direct



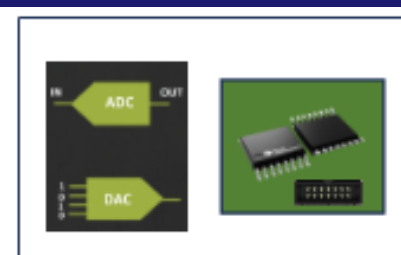
Acel/Giro 6 eixos MPU 6050
I2C breakout



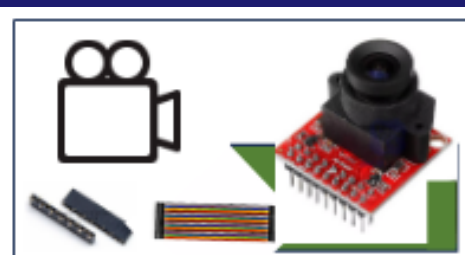
SDCARD SPI
IDC cable



LoRa modem SPI IDC
915MHz RFM95W



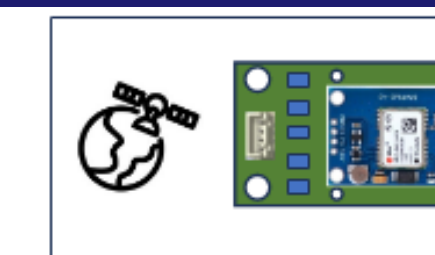
ADC & DAC SPI IDC
AD5592R



Câmera (header)
OV2640



LCD 320x240
Conector IDC



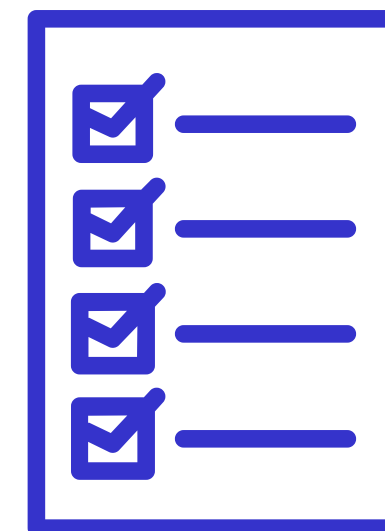
GPS GY-NEO6MV2
Uart breakout

PUBLICAREMOS O MATERIAL DO CURSO!*

Video aulas



Atividades



*Separadamente
do Embarcotech

DIFERENCIAIS



Conteúdo especializado e
de alta qualidade



Curso hands-on



Forte conexão
com mercado



Bolsa de estudos



Executado por
instituições de
referência nacional

HOW TO PARTICIPATE





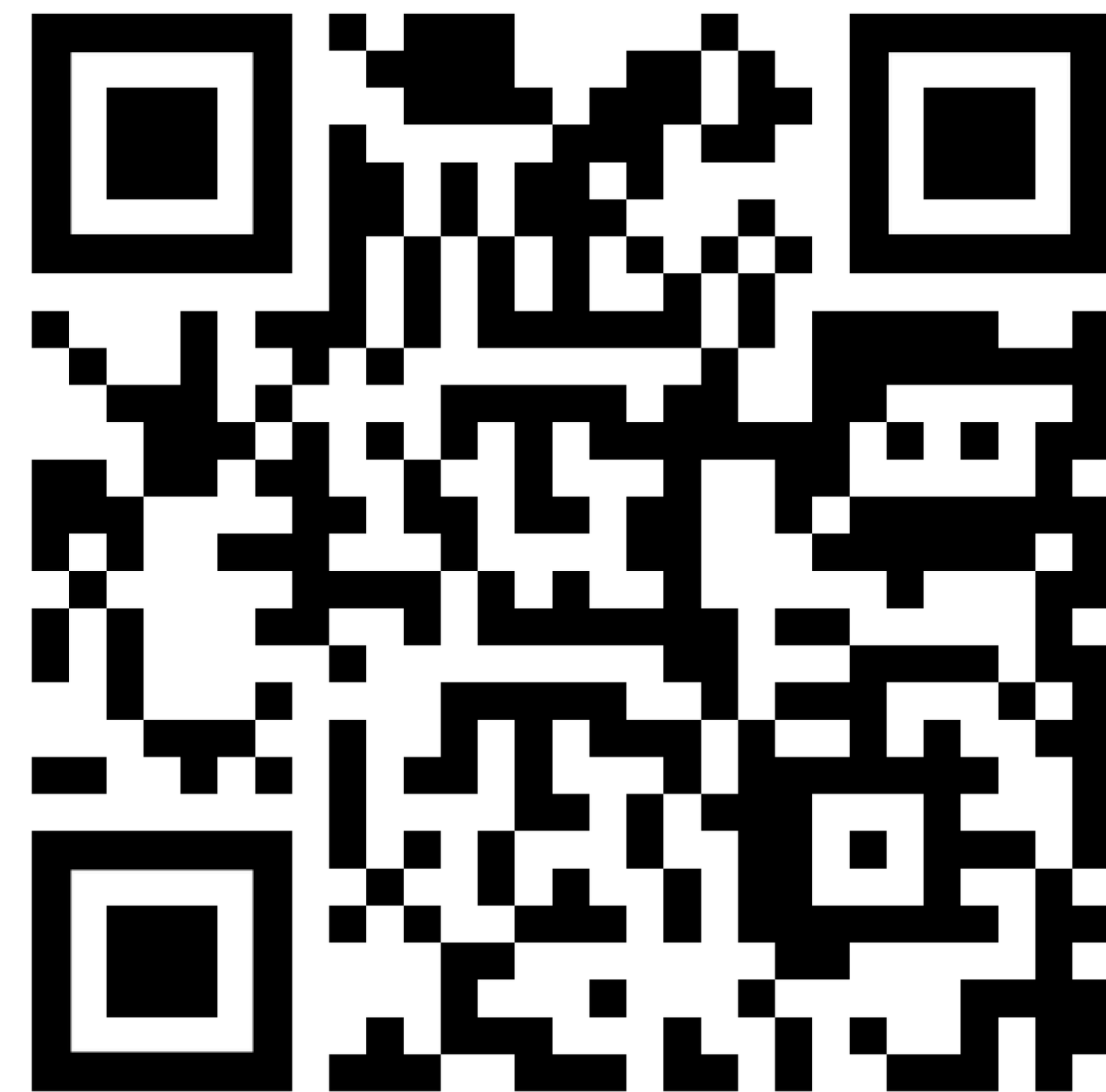
HBR - Unidade Brasília - DF
HBR - Unidade Campinas - SP

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Participe do programa de Residência Tecnológica
em Sistemas Embarcados e desbrave novos
horizontes profissionais!



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<https://embarcatech.softex.br>

gabpgomes@gmail.com
j241163@dac.unicamp.br



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Tecnológica
em Sistemas
Embarcados



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E INOVAÇÃO



FIM DOS SLIDES.
DAQUI PRA FRENTE É O
TEMPLATE.



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E INOVAÇÃO



WHO ARE WE?



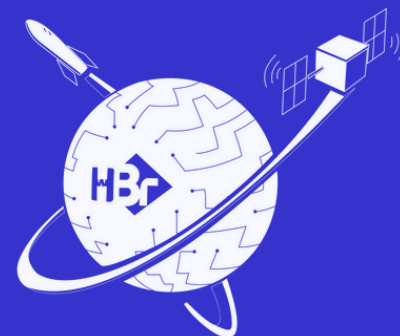
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HARDWARE BR



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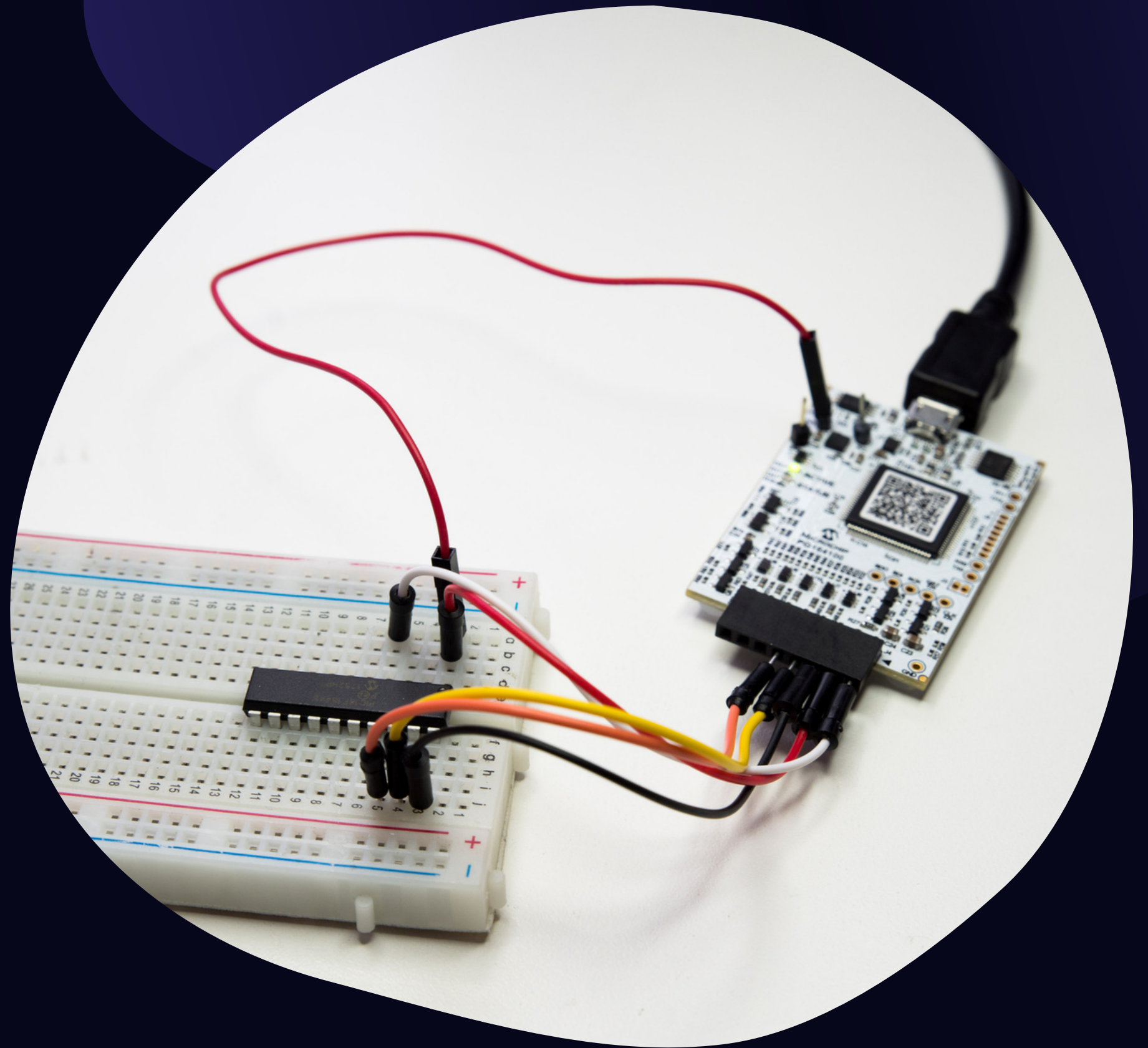
Residência em Tecnologias Aeroespaciais

WHAT IS EMBARCATECH?

Training in embedded systems solutions

Professional training for undergraduate
students and graduates

Engineering, Computer Science and
related fields



Training Centers (FPGA)



Instituto Hardware BR DF



Instituto Hardware BR SP

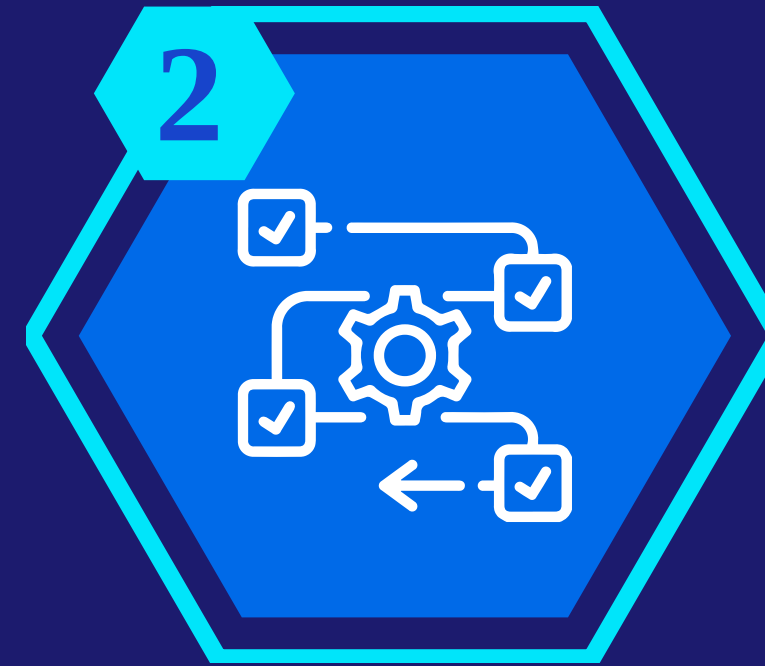


PROGRAM PHASES



Technical Training

Internet of Things
Case studies: Agriculture, Industry, Smart
Cities and Logistics
Online
(1000 students)



Technological Residence

Practical Activities
Working within companies
Hybrid
(100 students)

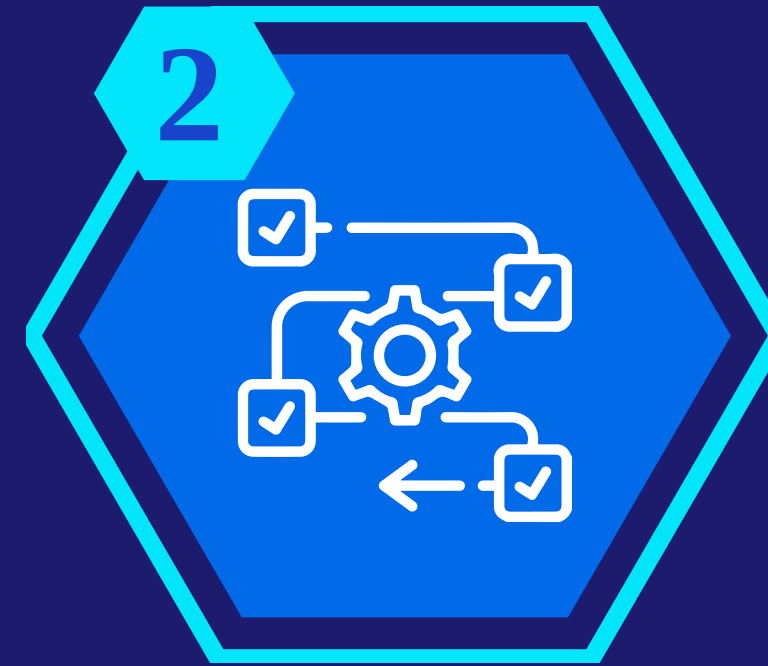
PROGRAM PHASES



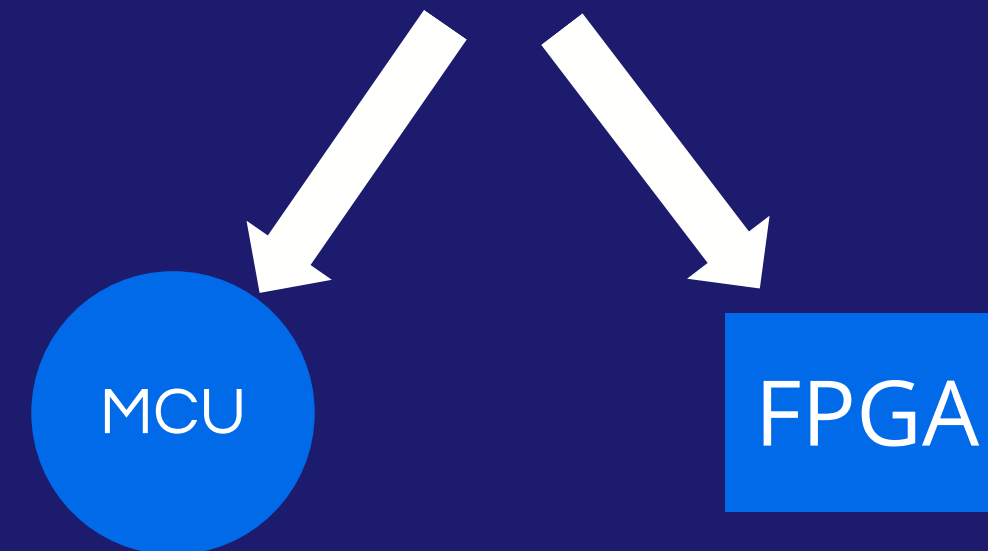
Technical Training

Internet of Things
Case studies: Agriculture, Industry, Smart
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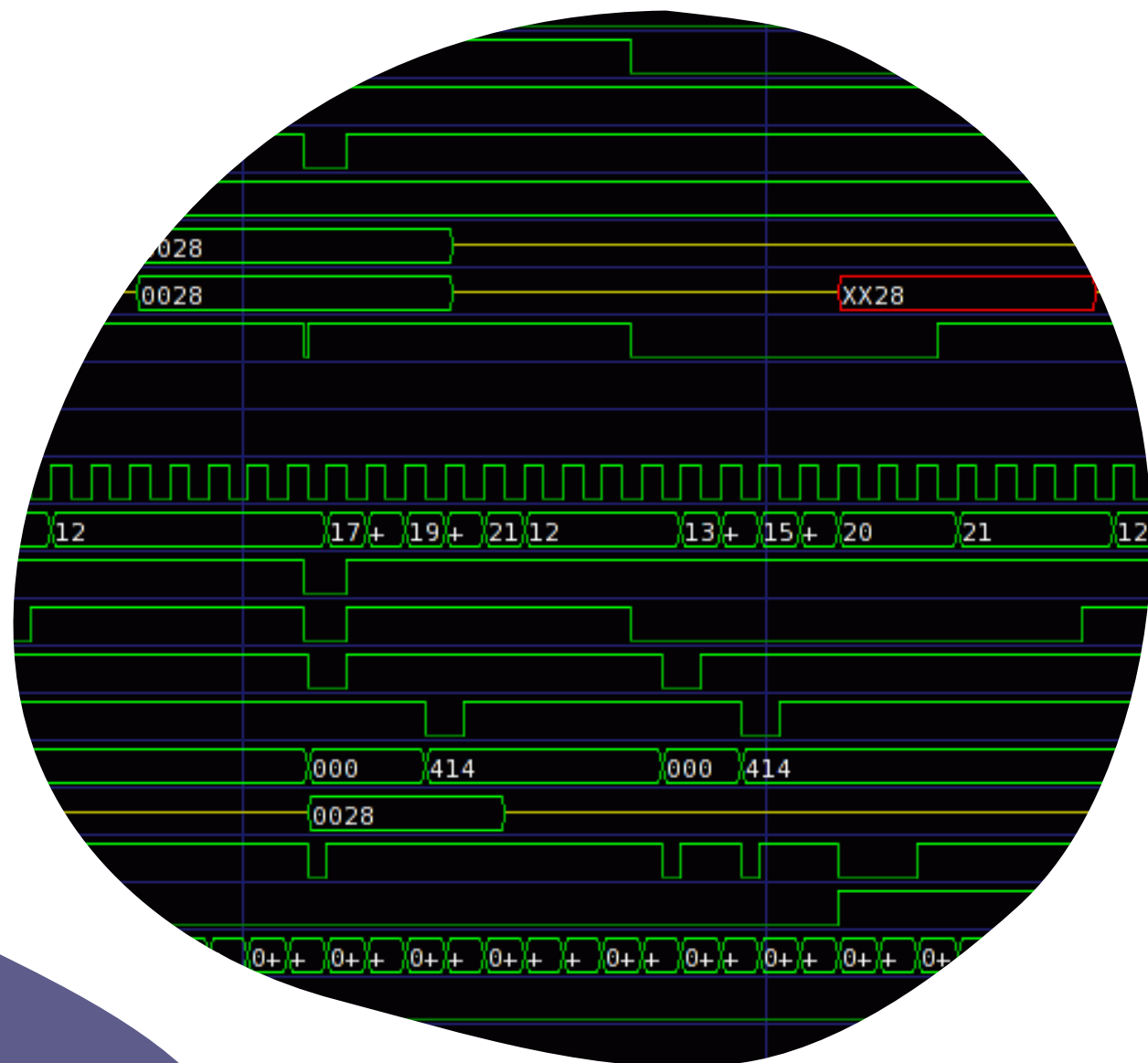


Technological Residence

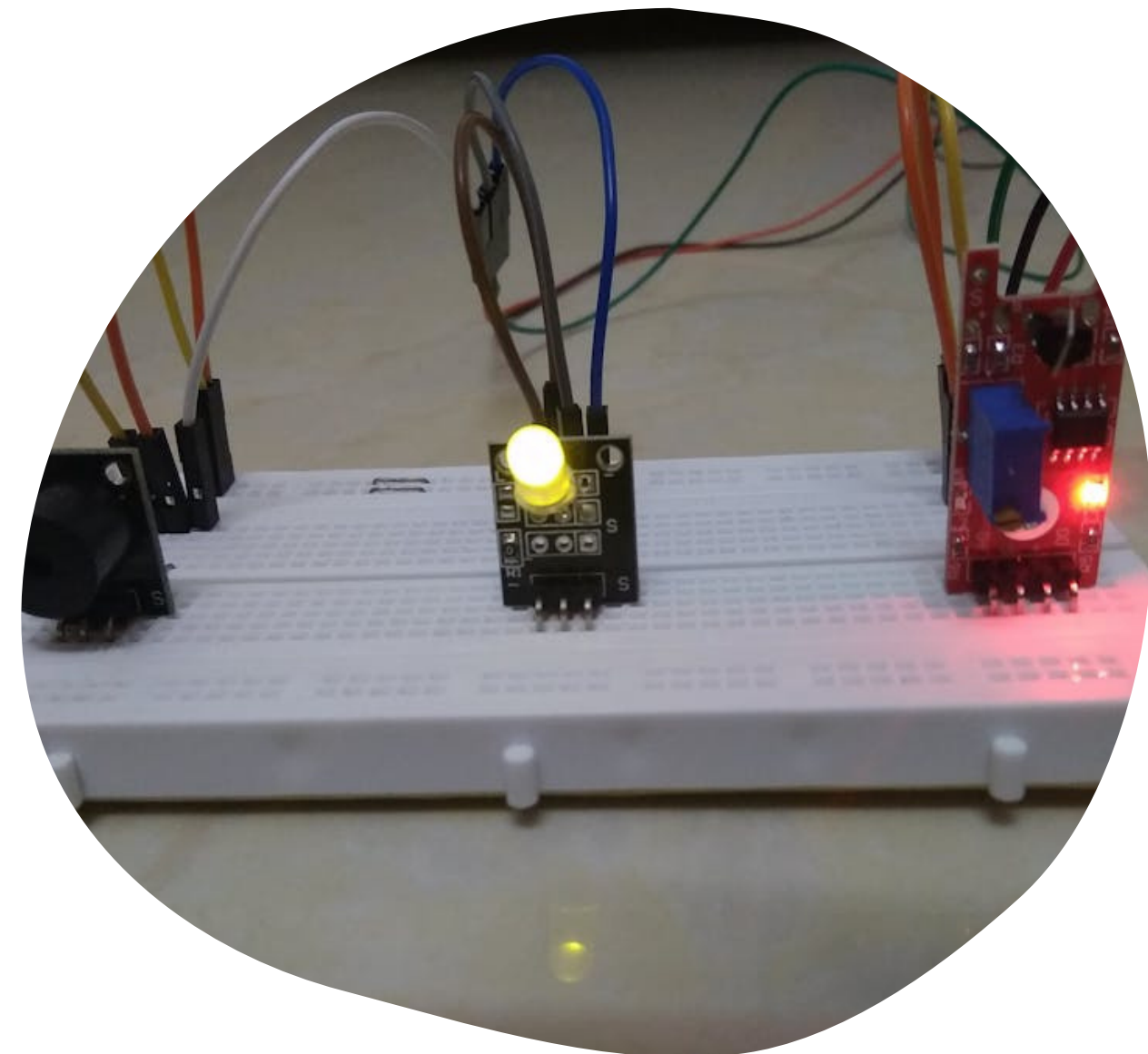


TEACHING METHODS

Simulation



Practice



ALL STEPS USE OPEN-SOURCE TOOLS

IVERILOG +
GTKWAVE

Simulation and
waveforms



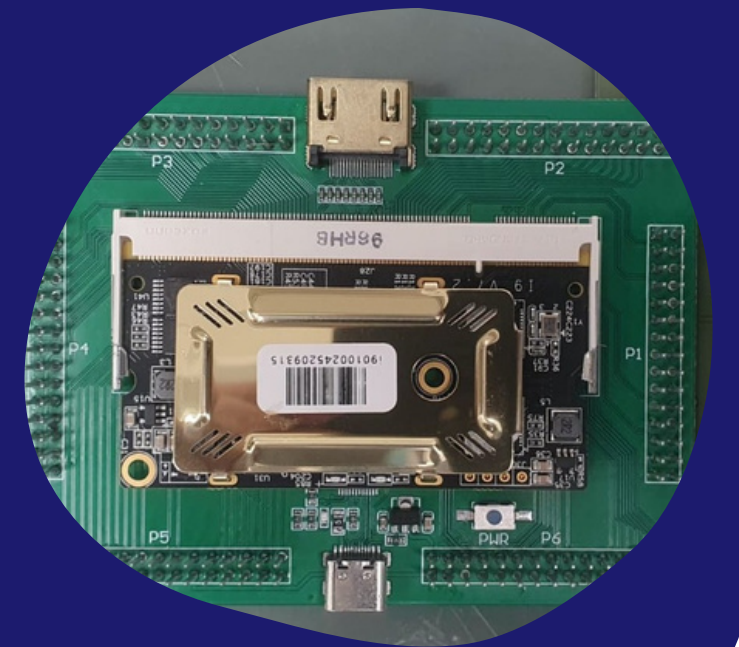
YOSYS

Compilation and
synthesis



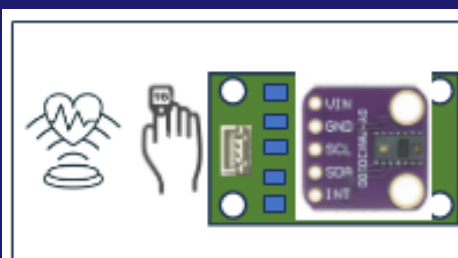
COLORLIGHT I9*

Prototyping and real
hardware

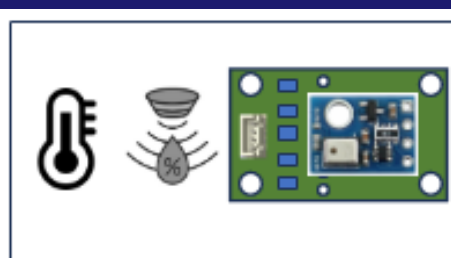


* Board adapted to
BitDogLab connectors

DEV KIT PERIPHERALS



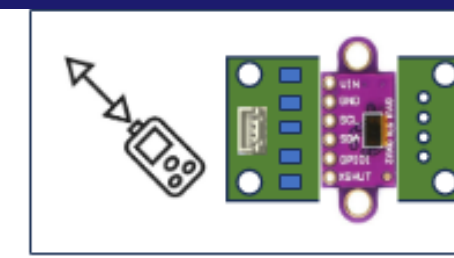
Oxímetro e Batimento
MAX30100



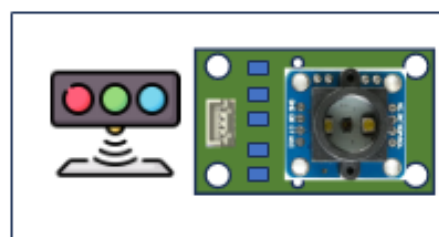
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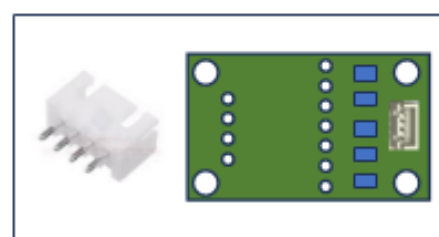
Cabos customizados
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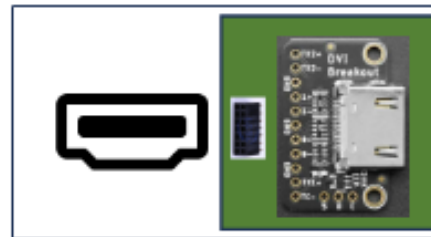
Distância a Laser
VL53L0X



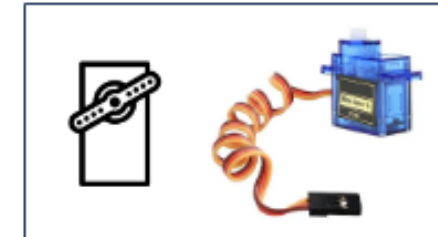
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9x I2C/servo/uart
adaptadora



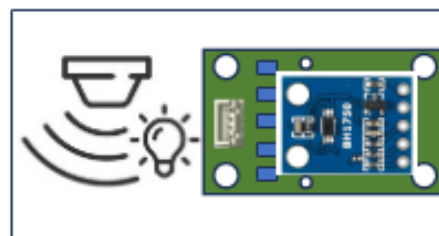
HDMI breakout
IDC direct



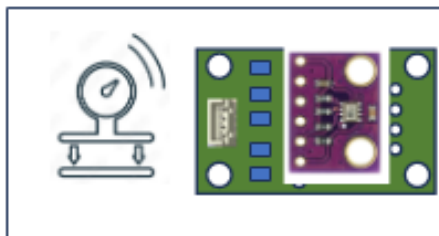
Servo Motor 9g SG90
I2C breakout



I2C Extender



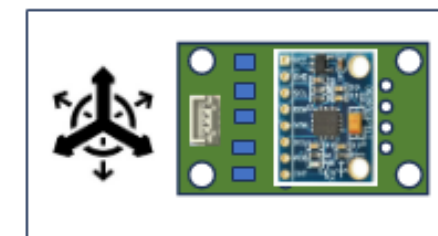
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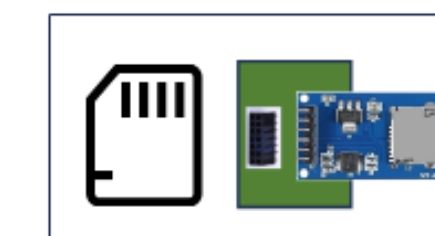
Temp/Pressão BMP280
I2C breakout



Teclado matricial
IDC direct



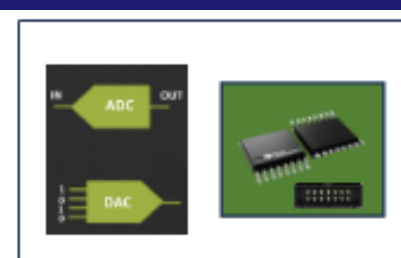
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I2C breakout



SDCARD SPI
IDC cable



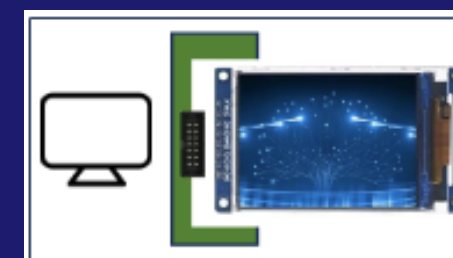
Lora modem SPI IDC
915MHz RFM95W



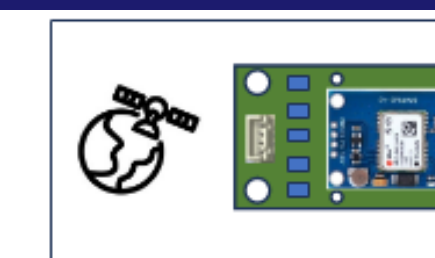
ADC & DAC SPI IDC
AD5592R



Câmera (header)
OV2640



LCD 320x240
Conector IDC



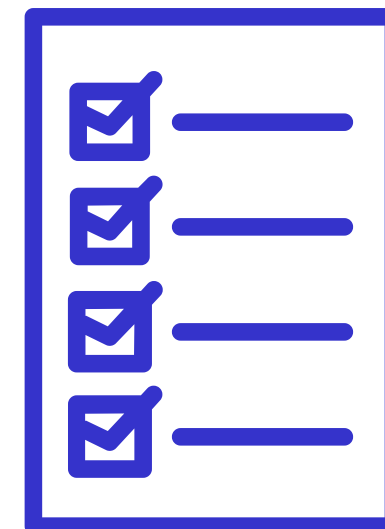
GPS GY-NEO6MV2
Uart breakout

WE WILL PUBLISH THE COURSE MATERIAL!*

Video lessons



Activities



* Separated from
Embarcatech

DIFFERENTIALS



High quality lessons



Hands-on
course



Connected with
the market



Scholarship
available



Delivered by renowned
institutions

HOW TO PARTICIPATE





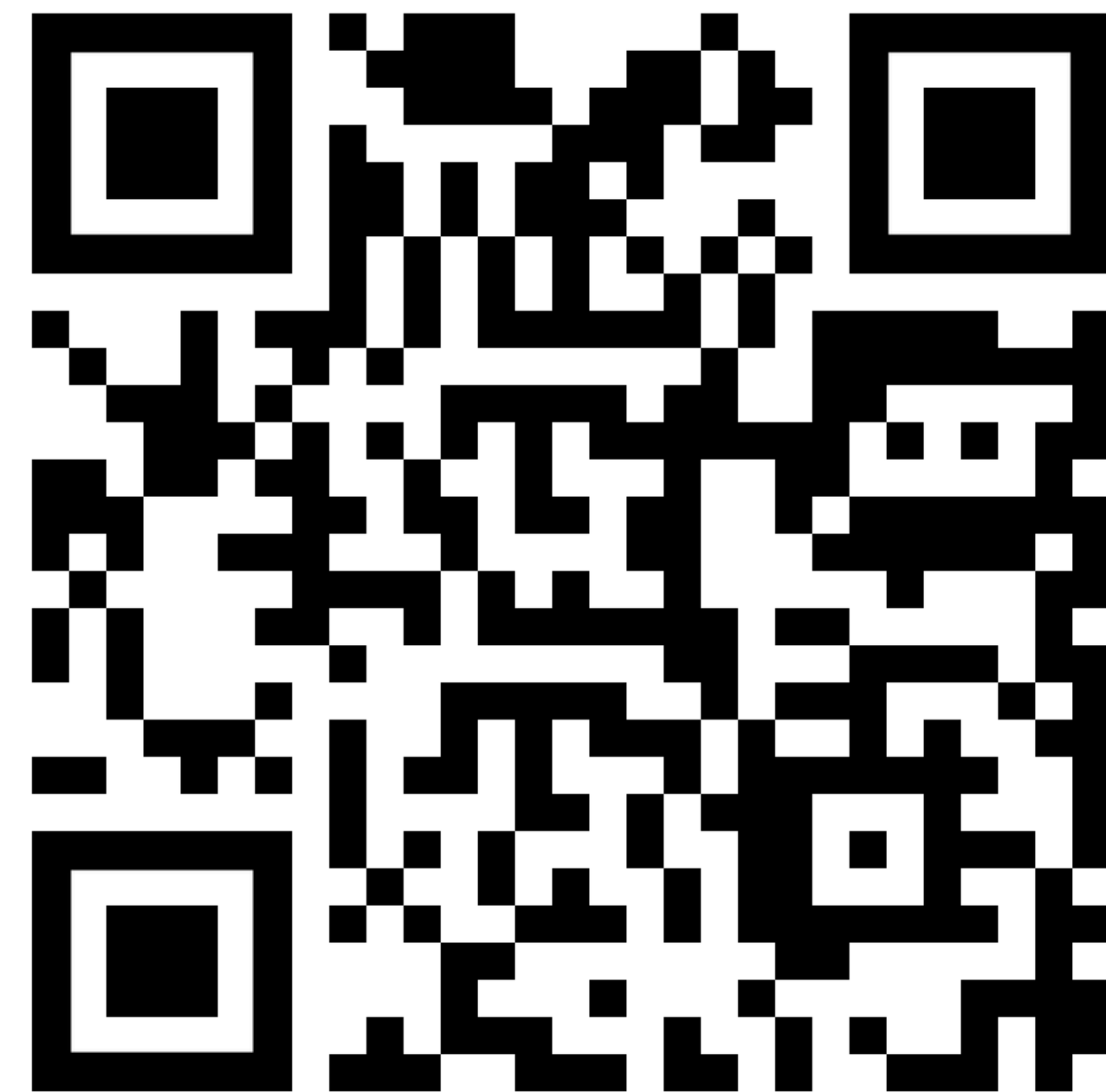
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E INOVAÇÃO



FIM DOS SLIDES.
DAQUI PRA FRENTE É O
TEMPLATE.

Grande Site

PROPOSTA COMERCIAL

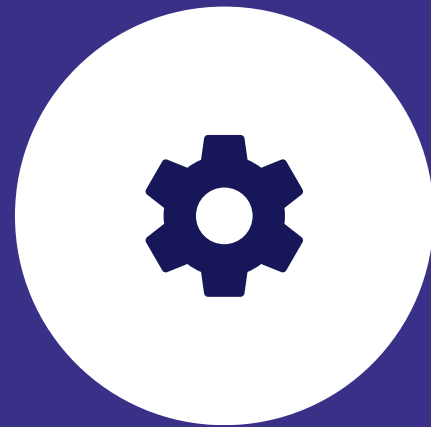
Apresentação de projeto

QUEM SOMOS?

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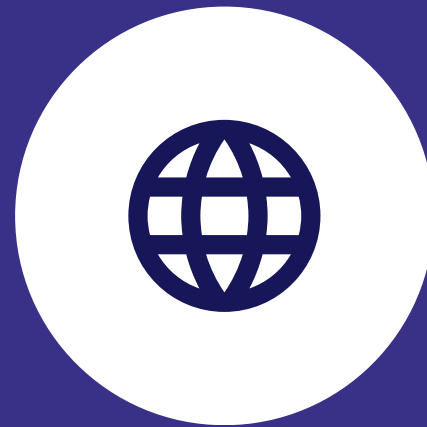


PONTOS PRINCIPAIS



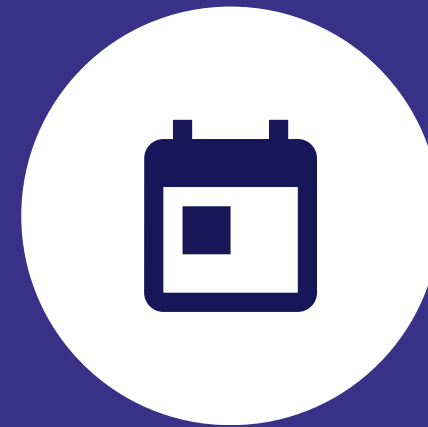
PROCESSOS CLAROS E TRANSPARENTES

Transparência em cada etapa do processo com comunicação simples e direta.



ATENDIMENTO REMOTO 24H

Atendimento humanizado 24h de qualquer lugar.



MELHORES PRAZOS DO MERCADO

Processos com prazos bem definidos e que realmente funcionam.



VALORES SEMPRE DENTRO DO ORÇAMENTO

Valores que cabem no bolso do cliente.

PROJETO GRANDESITE

Descrição + processo + Investimento

DESCRIÇÃO DO PROJETO #01

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ETAPAS DO PROJETO

01. PESQUISA

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02. DESENVOLVIMENTO

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03. PRODUÇÃO

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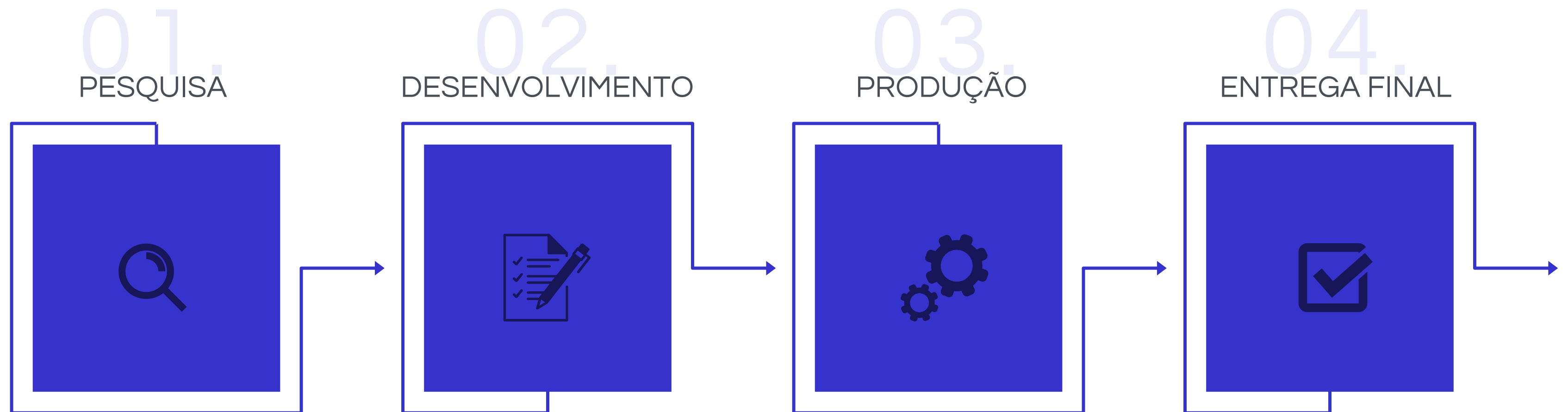
04. ENTREGA FINAL

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ETAPAS DO PROJETO

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PESQUISA E DESENVOLVIMENTO

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PRODUÇÃO E ENTREGA

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VALORES E PRAZOS

PACOTE 01

Entrada: 15%

Valor total: \$ 1,234.56

Data de entrega: 17.07.2024

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PACOTE 02

Entrada: 15%

Valor total: \$ 1,234.56

Data de entrega: 17.07.2024

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Phasellus in porttitor urna. Vivamus ut semper ex. Integer massa augue, fringilla id viverra malesuada, efficitur a dolor.

PACOTE 03

Entrada: 15%

Valor total: \$ 1,234.56

Data de entrega: 17.07.2024

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