

seixal  
**CREATIVO**



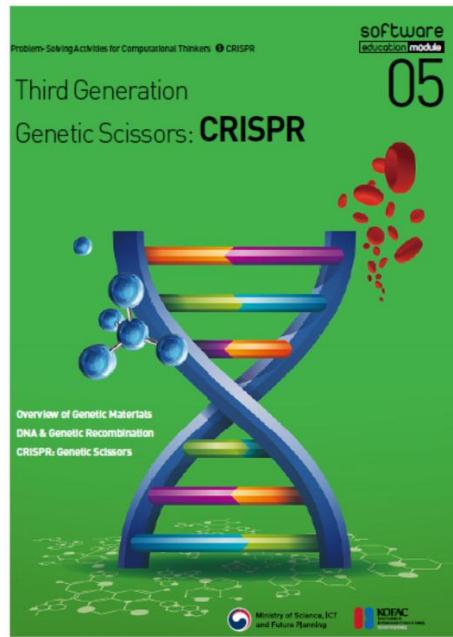
seixal  
câmara municipal

# Seixal Criativo Inspirations

## The knowledge transition

Learning from KOFAC (South Korea)  
program for 9th year students

- 1 [Artificial Intelligence](#)
- 2 [Driverless vehicles](#)
- 3 [Internet of things](#)
- 4 [Virtual reality](#)
- 5 [CRISPR](#)
- 6 [Space launch vehicles](#)
- 7 [Natural disasters](#)
- 8 [Smart medicine](#)
- 9 [Game engines](#)
- 10 [Sports statistics](#)



[Alexander Von Gabain on EU's Innovation Model](#)

[Societal Transformation 2018-2037: 100 anticipated radical technologies, 20 regimes, case Finland](#)

# Seixal Criativo

## Project-based learning center

Frontier Science and Technology

Foundations:

- **School of Bits and Atoms:** knowledge for the future
- **"Creative Seixal in Schools:"** Bits and Atoms in your school

Project:

- **Seixal World:** students project's from Seixal to the World
- **Meta Seixal:** the municipality and the internet of the future

Experimentation:

- **Clubs:** Robotics, Programming, Girls into Science



# Seixal Criativo

## Project-based learning center

At the premises of the City Council of Seixal – Training area



# Seixal Criativo

## Project-based learning center

Multipurpose Area



Test zone ("drones")



# Seixal Criativo

## Project-based learning center

Rapid prototyping / 3D printing laboratory



Electronics and robotics laboratory



# Seixal Criativo

## Project-based learning center

Photography and video





# Fundamentals

**School of "Bits and Atoms"**

- Learn by doing
- Demystifying technology
- Inspiration for the projects
- 8 weeks / 8 technologies

# School of Bits and Atoms

## fundamentals

*360º image and video*

*Game development*

*3D Modelling and Printing*

*Introduction to Programming*

*Artificial intelligence*

*Introduction to Microprocessors*

*Introduction to Robotics*

*Augmented/Virtual Reality Fundamentals*

# School of Bits and Atoms

360º video production



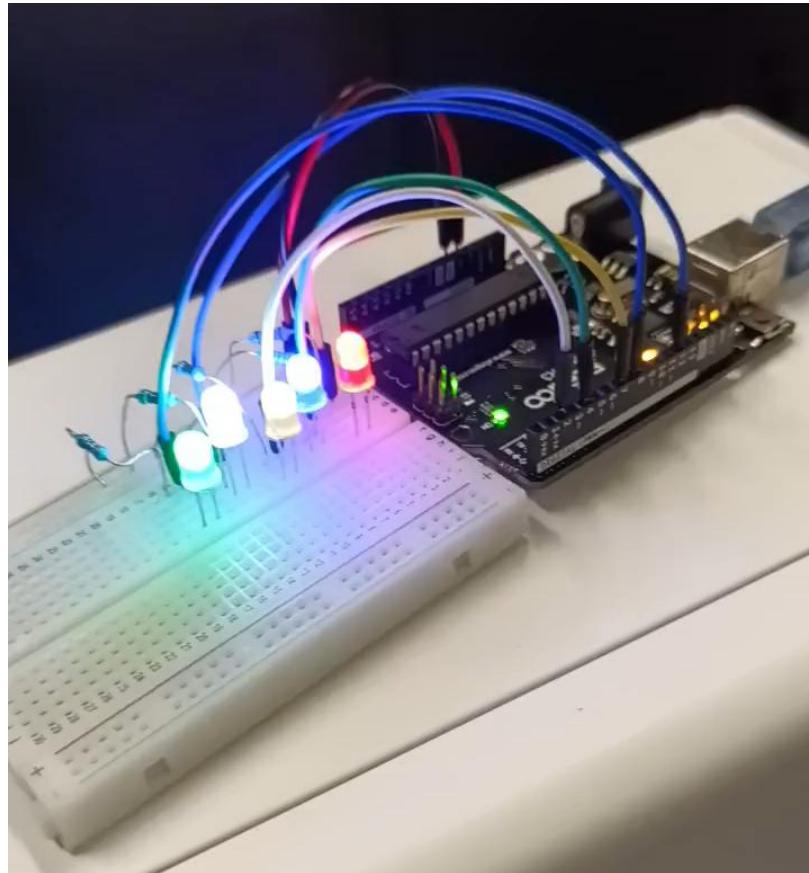
# School of Bits and Atoms

Rapid prototyping: 3D modeling and printing



# School of Bits and Atoms

Introduction to robotics, microprocessors,  
and visual programming languages



# School of Bits and Atoms

AR/ VR/ 360º Video





# Seixal World

students project's from the Seixal to the World

- Idea generation
- Structured thinking
- Rapid Prototyping
- Project Presentation

# School of Bits and Atoms

What's next...

## Project development

- “Brainstorming”
- Starter modules (common to all projects)
  - Organization and structuring of ideas
  - Project Management
  - Benchmarking (competitors)
  - Branding (logo)
  - Rapid prototyping (tools)
- Tailor-made development (specific to each project / student)

# Some projects under development

# Seixal World

Seixal student projects for the World

## Kruka

Smart and modular pot capable of germinating, monitoring and caring for different types of plants with the help of an AI system.



# Seixal World

## Seixal student projects for the World

**kruka**

NOME

EMAIL

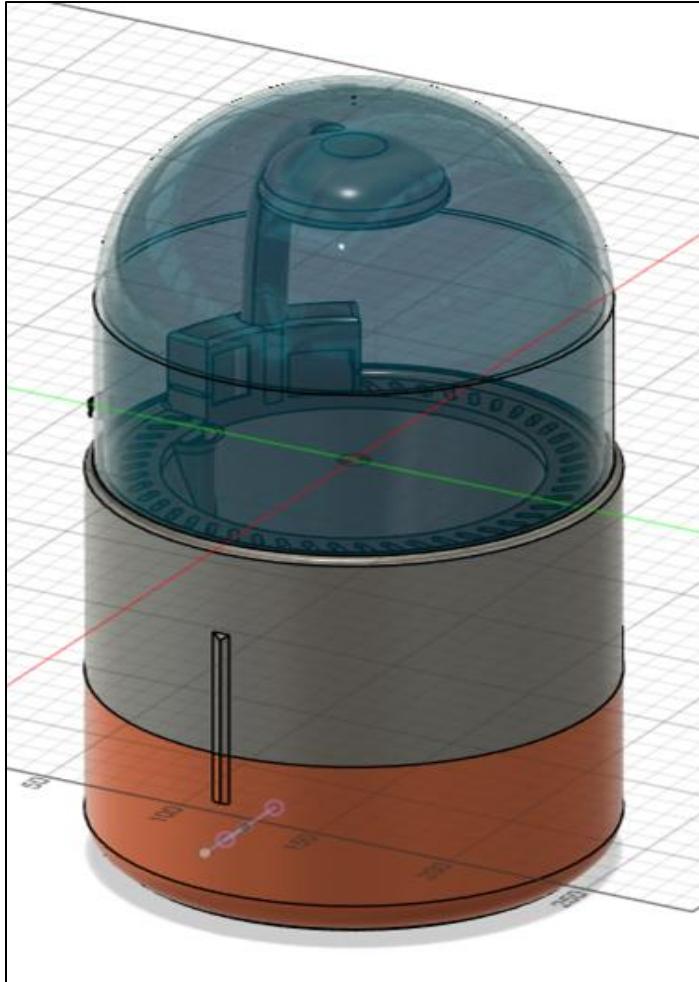
SENHA

CONFIRMAR SENHA

DATA DE NASCIMENTO  
|v |v |v

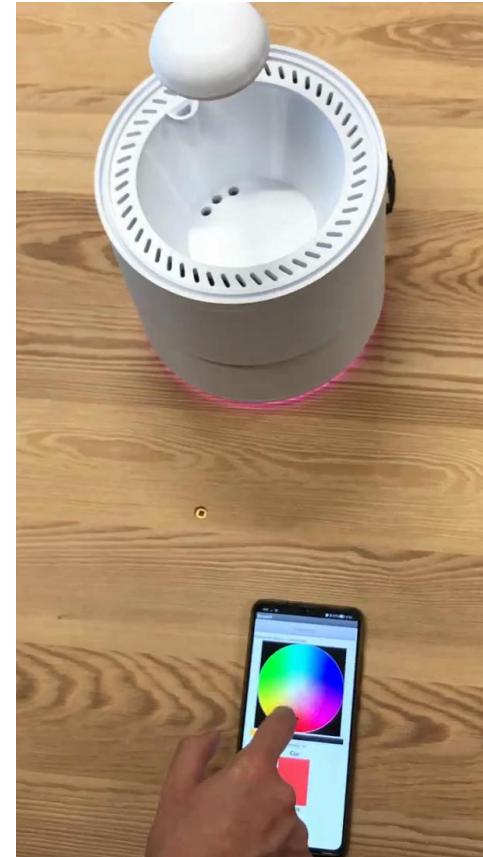
**CONFIRMAR**



# Seixal World

Seixal student projects for the World



Hardware/  
software  
Testing

# Seixal World

Seixal student projects for the World



WiseLamp



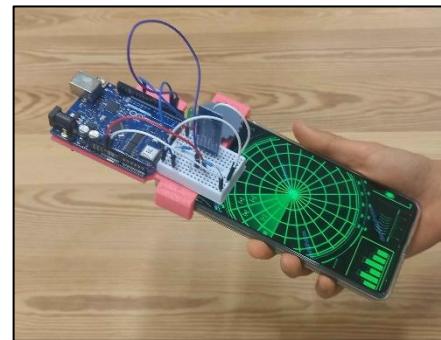
ErgoChair



Sonosphere



icupa



Cannarde

# Conferences Creative Seixal

[John Filipe](#), Creative Director Ridley Scott

[Ken Pimentel](#), EPIC Games

[Fabio Seidl](#), Meta's Global Creative Director

[Tony Fernandes](#), Designed the first commercial Internet browser(Netscape)

[João Gandra](#), European Space Agency

[Diogo Almeida](#), Google Maps Lead Designer, Google Japan

...





# Meta Seixal

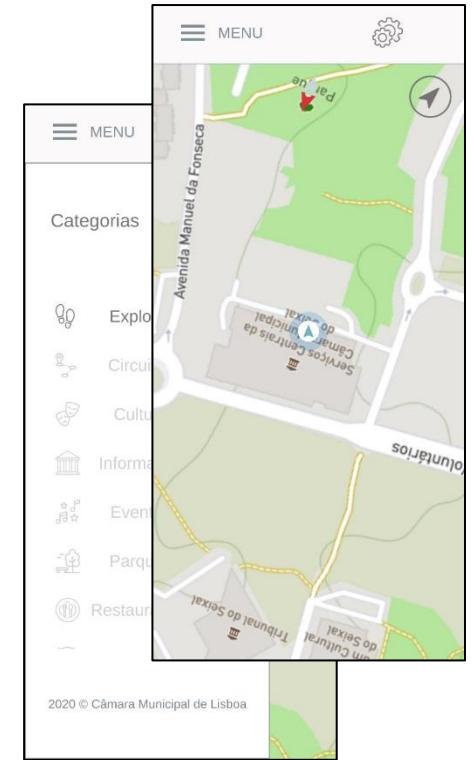
Seixal and the internet of the future



# Meta Seixal

## Seixal and the internet of the future

- AR Platform to “augment” Seixal
- Collective and additive project





# “Experimentation”

Clubs and other activities

# "Experimentation"

Clubs and other activities

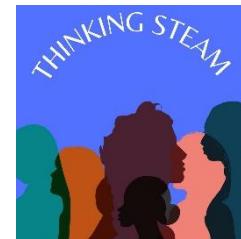
- Robotics Club "Electric Minds"



- Programming Club "Creative DEV.lz"

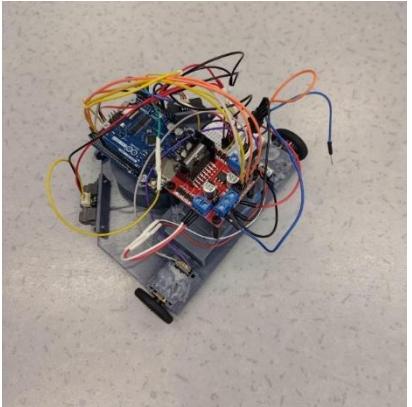


- "Girls into Science"



# "Experimentation"

## Robotic Club



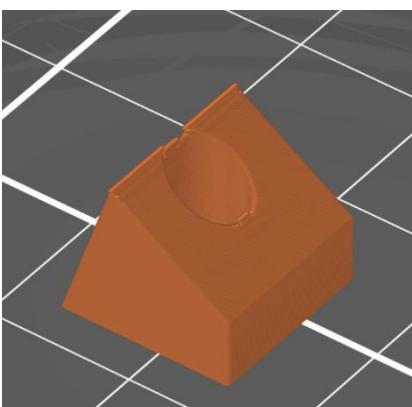
**BOT-BRAWL**



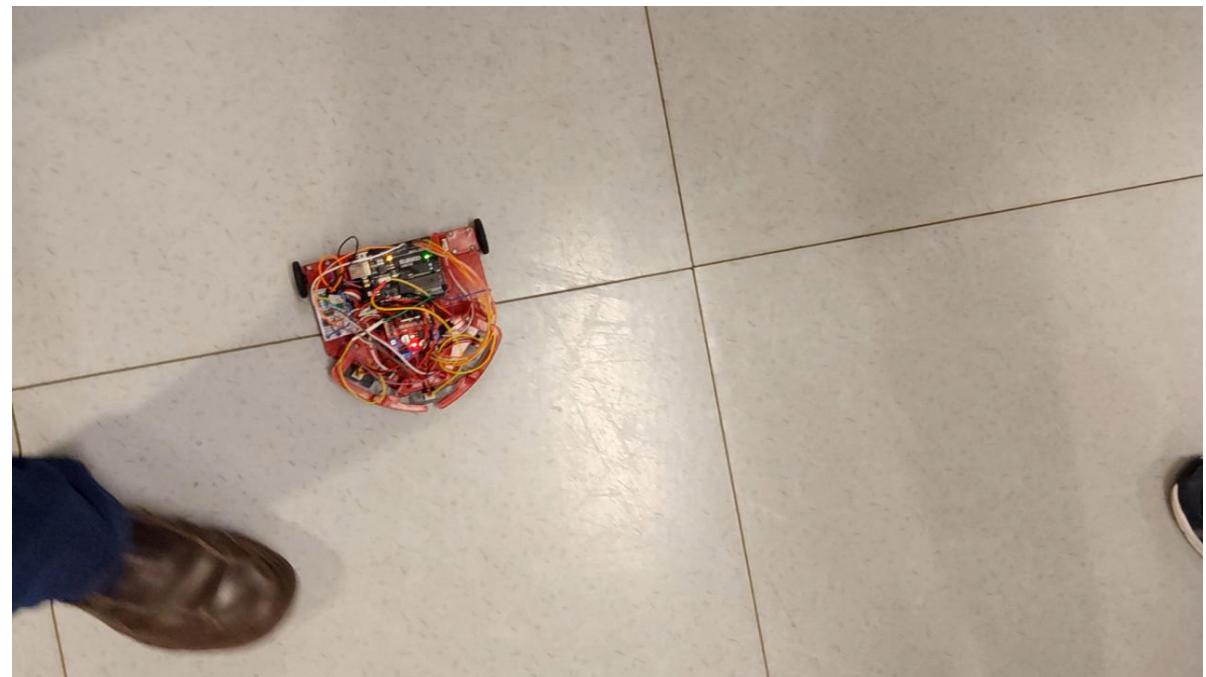
**SUPA-SPIDER**



**SWIVEL**



**CanWeFixIt?**



**Axel**

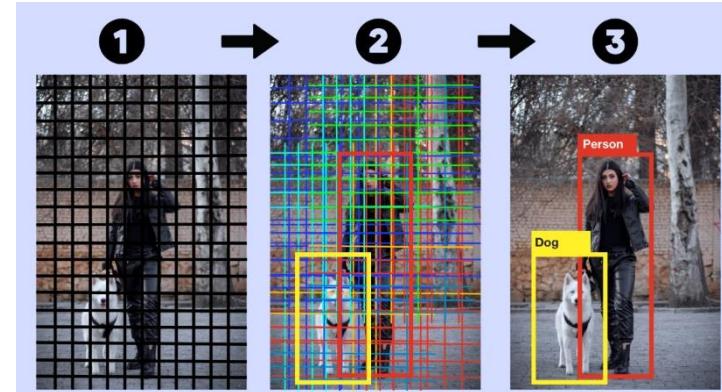
# "Experimentation"

## Programming Club

Organization by interest groups

Various themes:

- Python / AI
- UNITY (Augmented Reality / Virtual Reality)
- WebApp's
- Gaming...



Gigamind: Projeto sobre AI



Rift: Project on Mix Reality/Gaming

