

seixal CRIATIVO

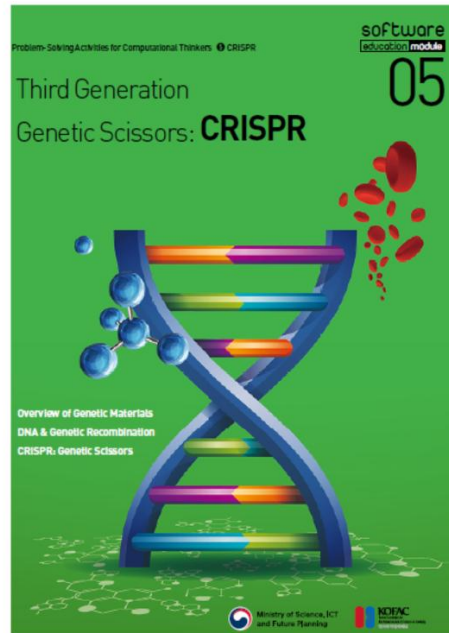


Seixal Criativo Inspirations

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

360° 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



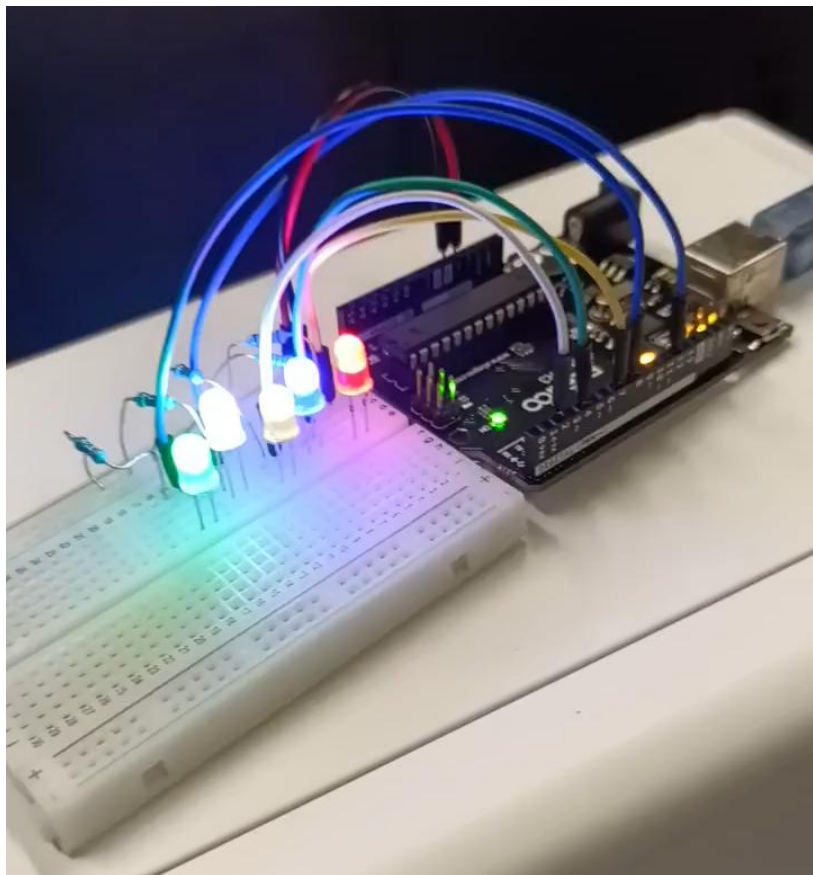
School of Bits and Atoms

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

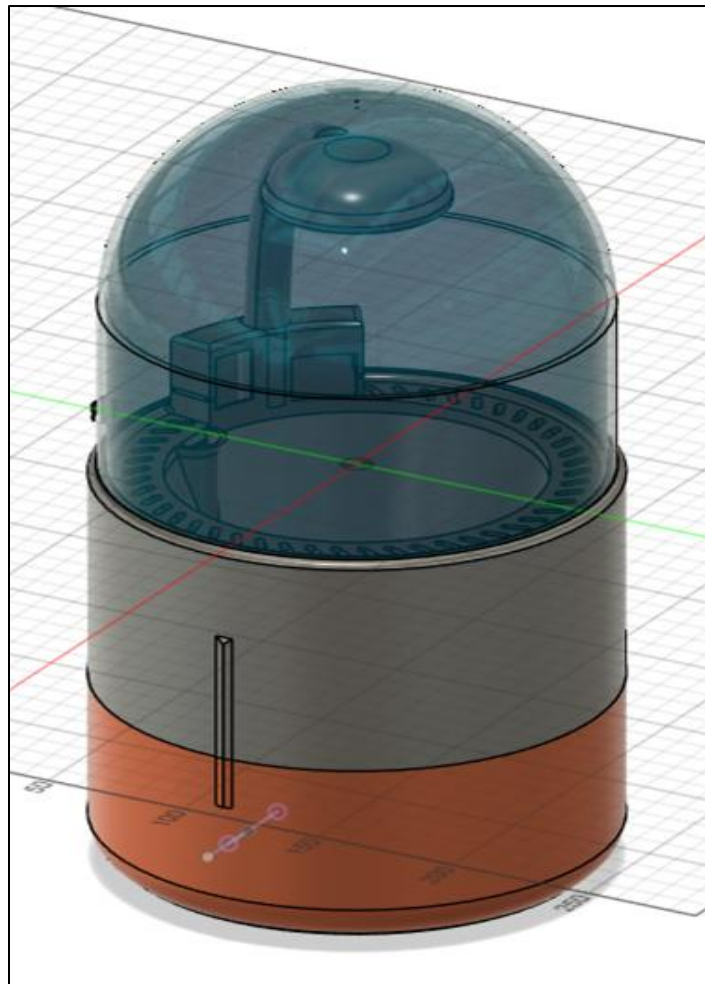
SENHA

CONFIRMAR SENHA

DATA DE NASCIMENTO

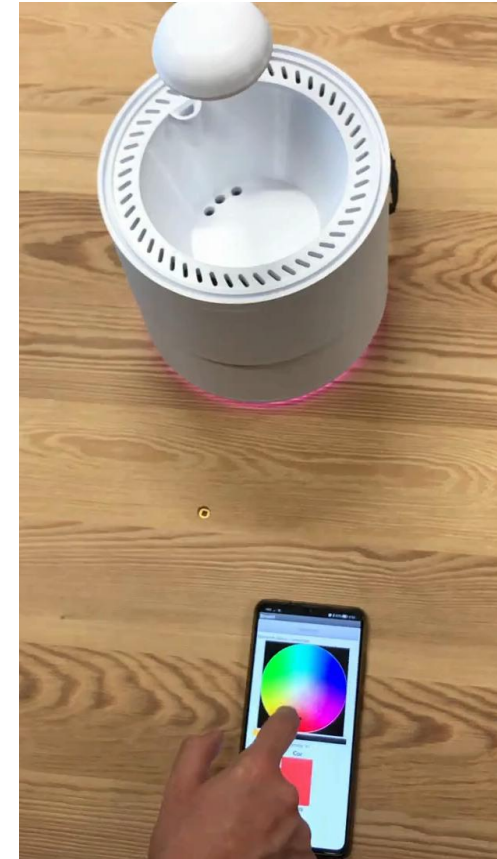
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Seixal World

Seixal student projects for the World



Hardware/
software
Testing

Seixal World

Seixal student projects for the World



WiseLamp



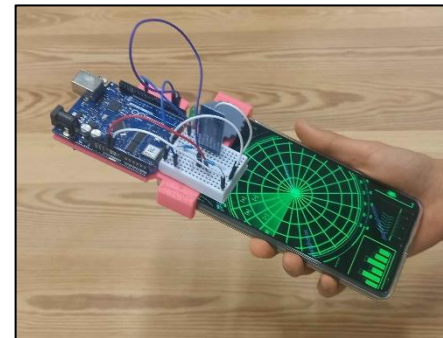
ErgoChair



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

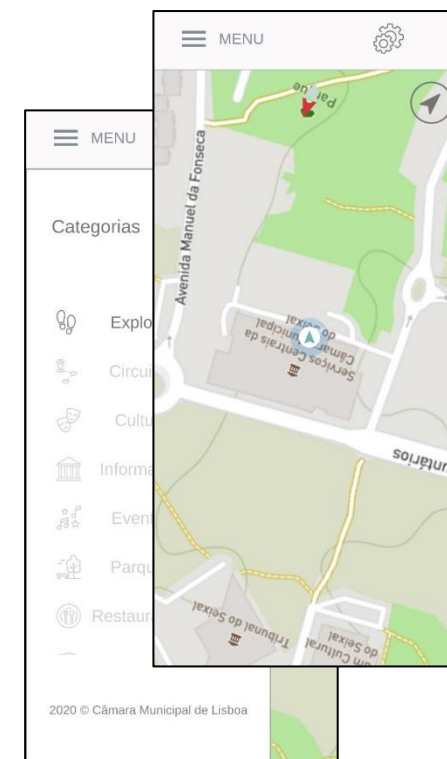
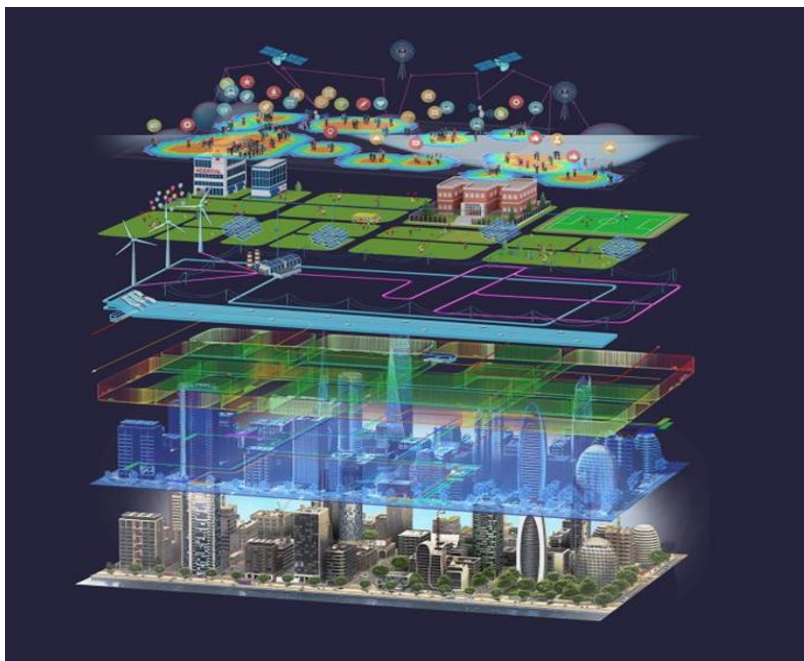
Seixal and the internet of the future



Meta Seixal

Seixal and the internet of the future

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





“Experimentation”

Clubs and other activities



"Experimentation"

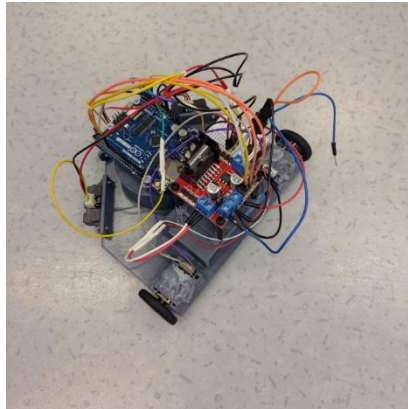
Clubs and other activities

- Robotics Club "Electric Minds"
- Programming Club "Creative DEV.lz"
- "Girls into Science"



"Experimentation"

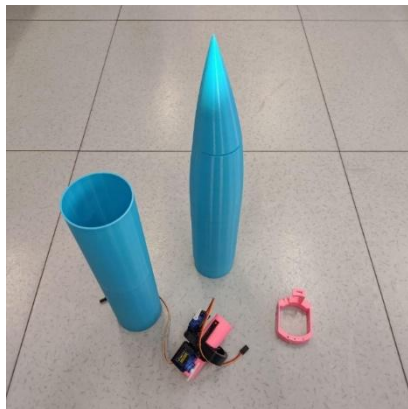
Robotic Club



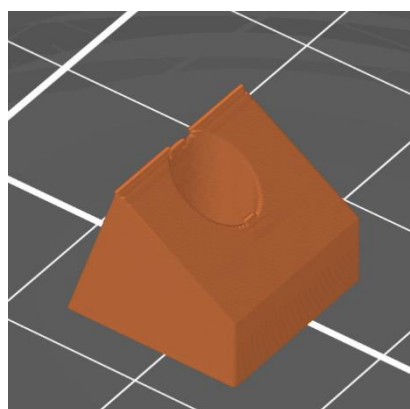
BOT-BRAWL



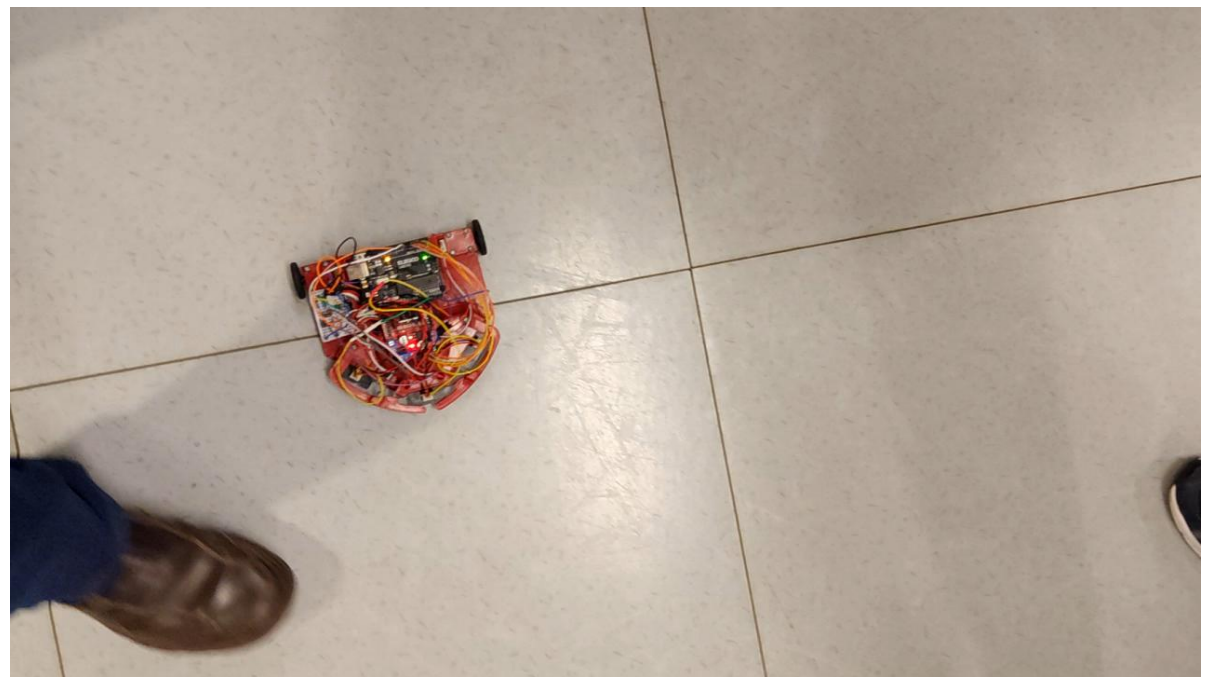
SUPA-SPIDER



SWIVEL



CanWeFixIt?



Axel

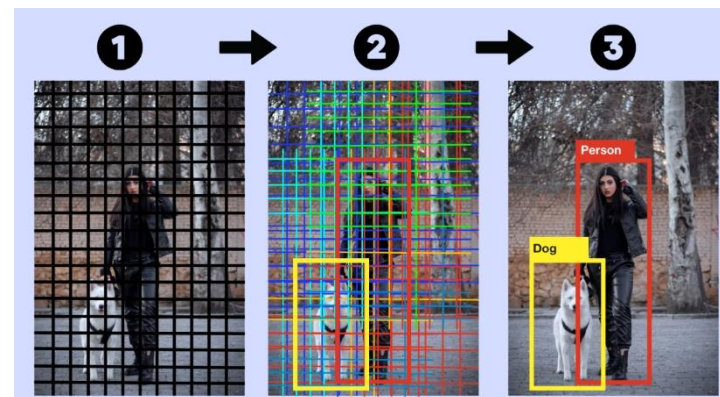
"Experimentation"

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

