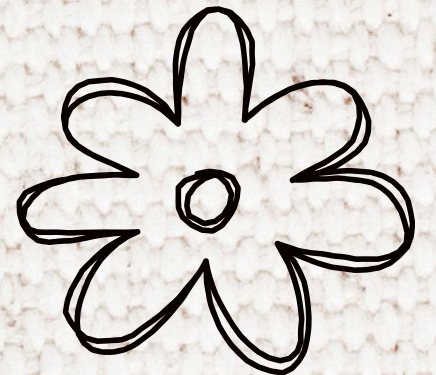




AI TOOLS FOR VET SCHOOLS

Transnational Project Meeting 1
03 - 06 December 2024





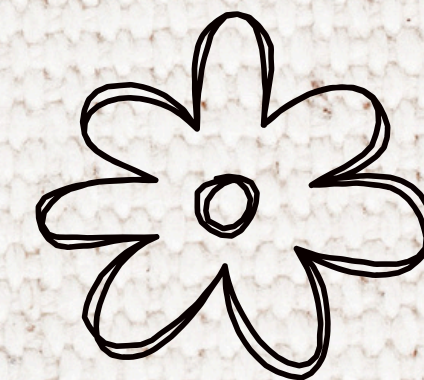
Добродошли

Dobrodošli

Vitajte

Bem-

vindos





The portuguese team



Carla Ganadeiro
Guilherme Mota
Maria Torrinha
Rui Dias
Sandra Nobre





ABOUT ME:



Carla
Granadeiro



I was born: Caramujeira,
Lagoa

53 beaches



This is where I live: Faro

In my free time:



- Running to stay active and healthy.
- I'm starting to explore crafting with a laser cutter and 3D printer.



My Education



University of Algarve

5 years

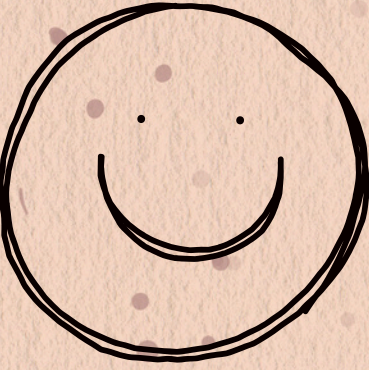
- 4 years: I attended a Degree in
Computer Science Teaching
- 1 year: Internship at a secondary
school



UA19



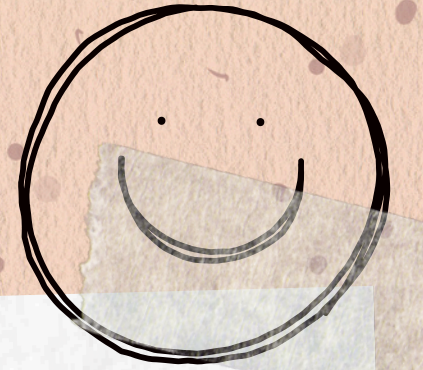
My Professional Experience



- I have 28 years
- of experience teaching
computer science
- In this school

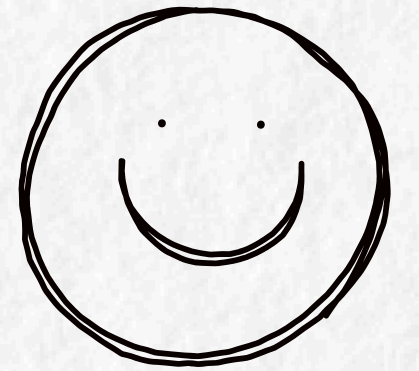


Courses I have taught



- General courses
- Professional courses
 - Management of IT Equipment
 - Computer Programmers
- Adult Education programs

Subjects' Content



- General courses

- ITC (Information and Communication Technology)

- Professional courses

- Computer Networking (Cisco Packet Tracer)



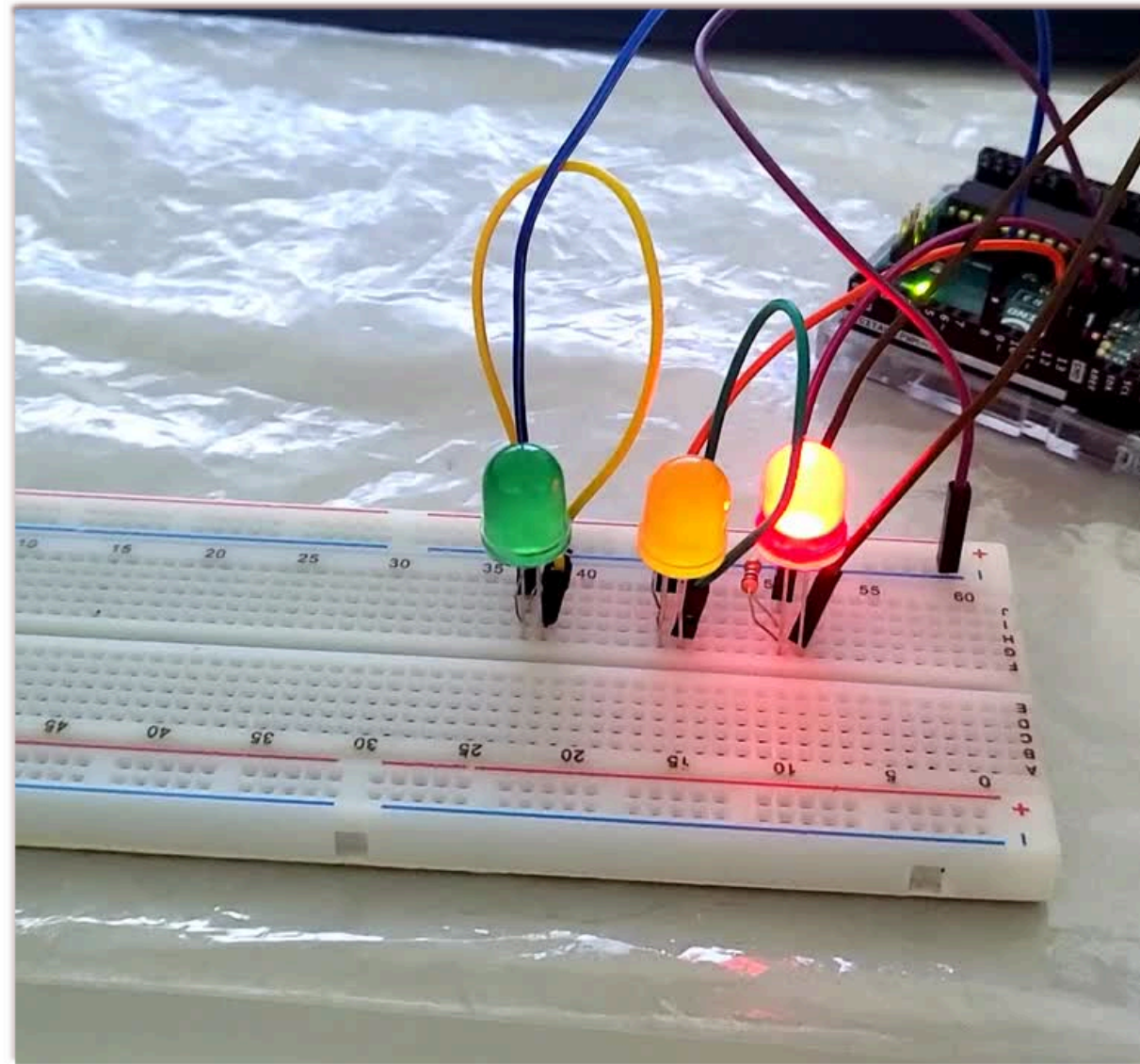
- Computer Assembly and Maintenance, and everything related to hardware and software basics

- Adult Education programs

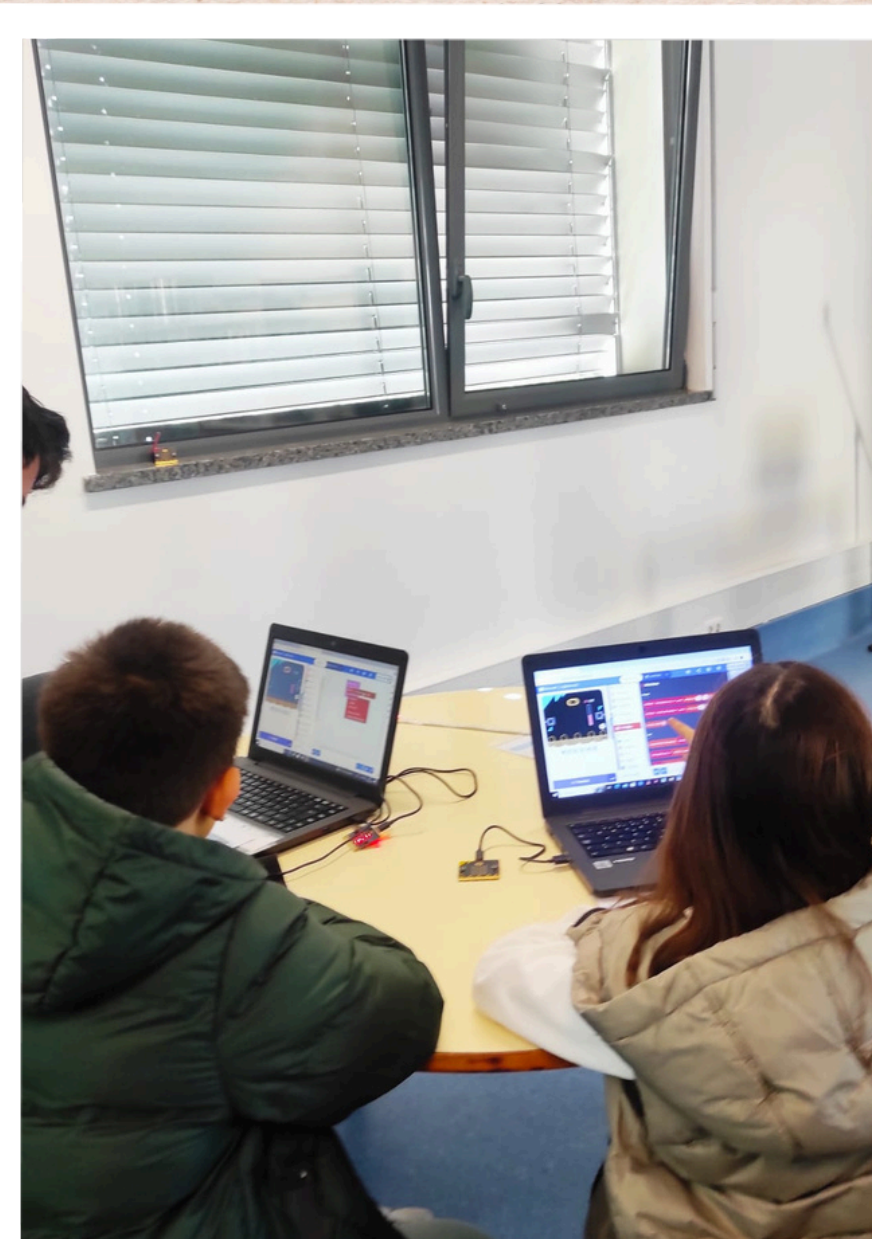
- Focused in digital skill

Some Student Projects

Arduino
Micro:bit
Mbot2



Traffic light prototype with Arduino



High school students teaching Micro:bit to younger students



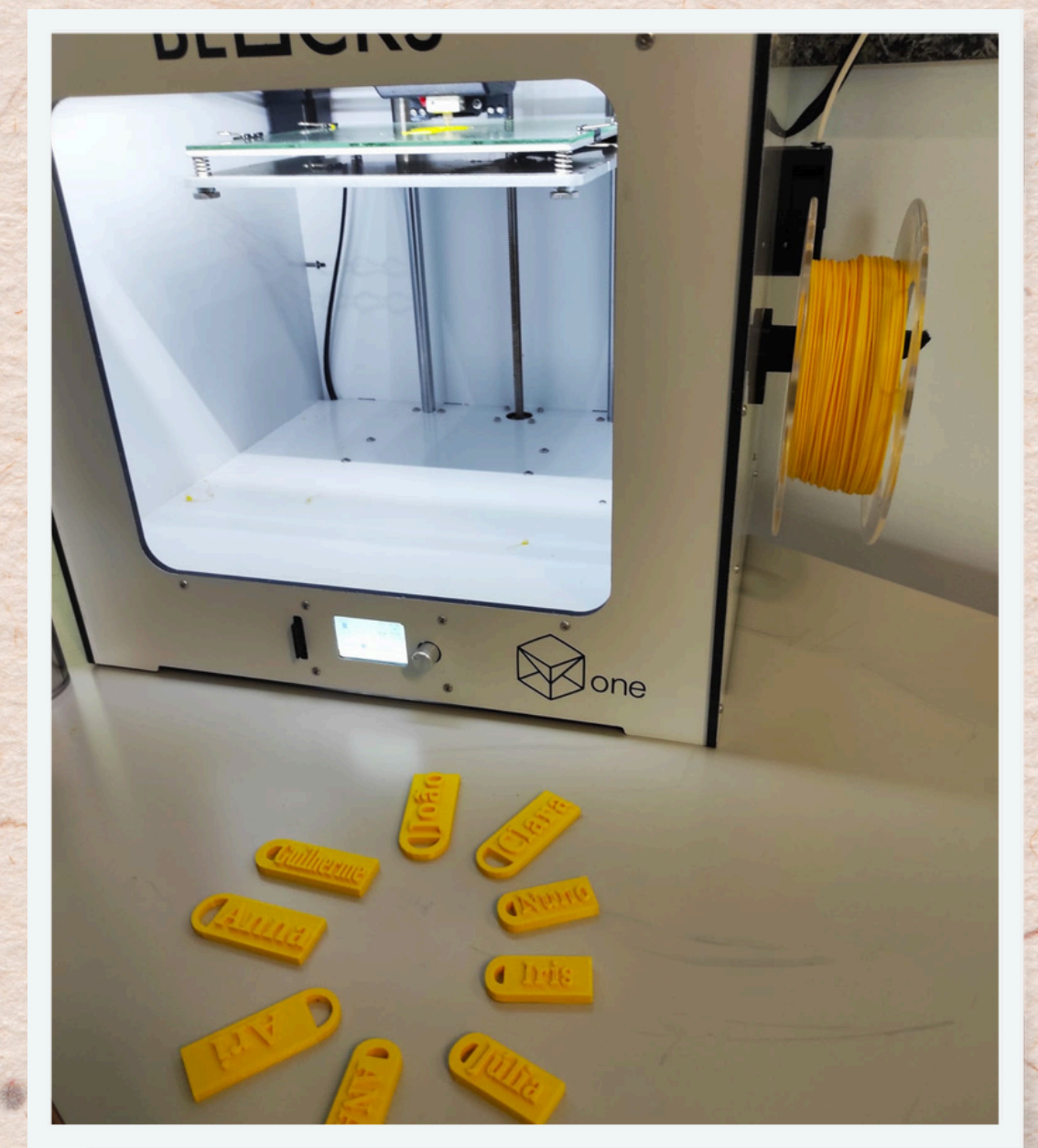
Robot Mbot 2

Some Student Projects



Automatic Trash

Arduino sensors
Printer 3D



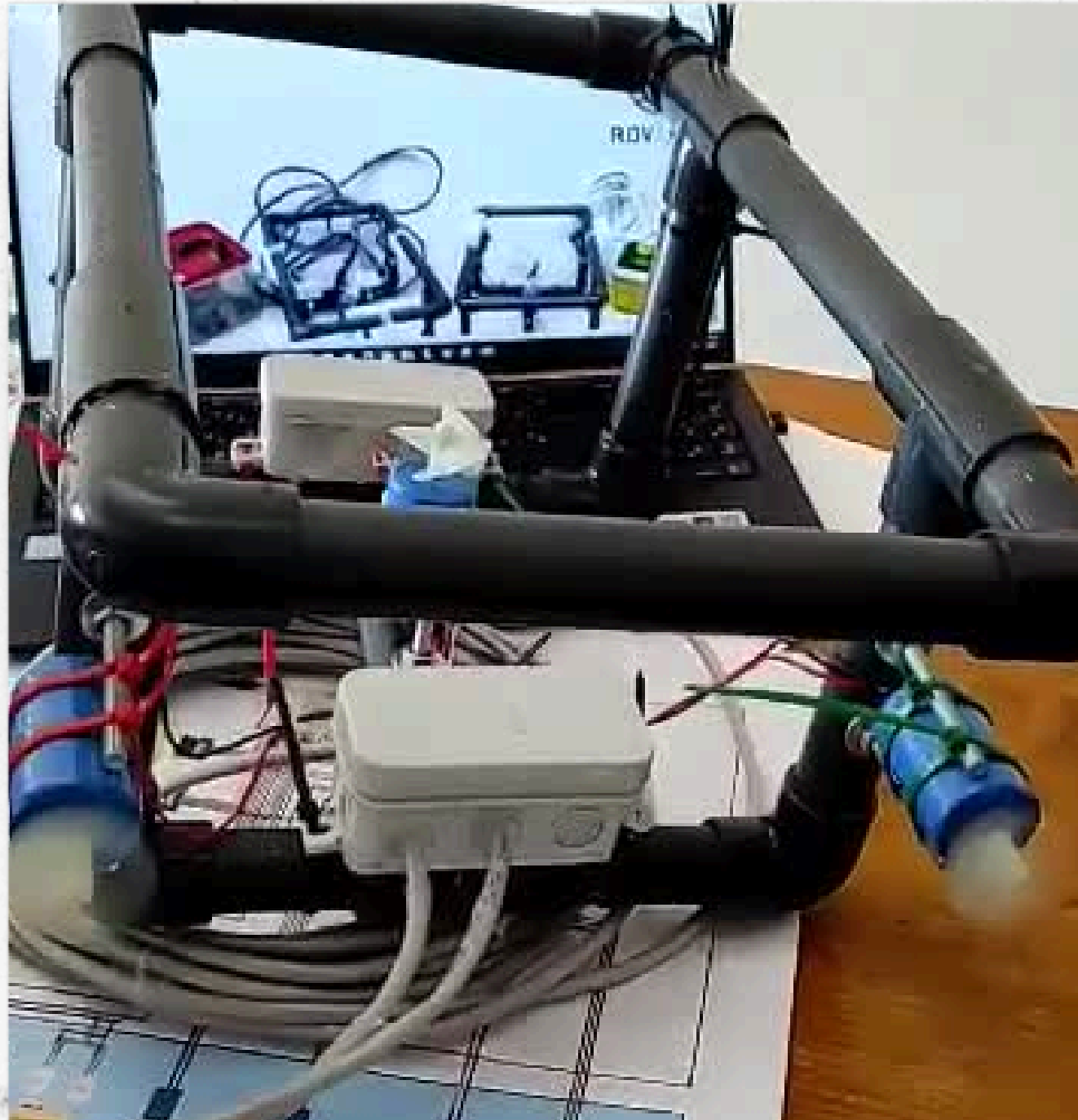
3d modeling and printing

Some Student Projects



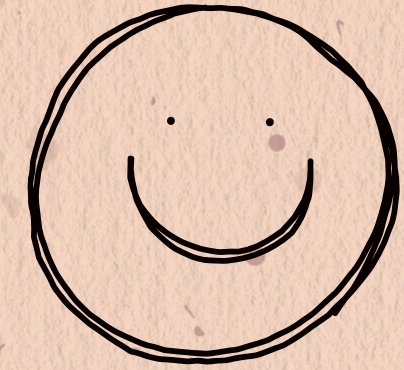
**Christmas Tree with Arduino / LCD /
step motor**

Some Student Projects



ROV - Remotely Operated Vehicle

IA tools in education



Help me with hardwork and generate new ideas



Thank you !!!

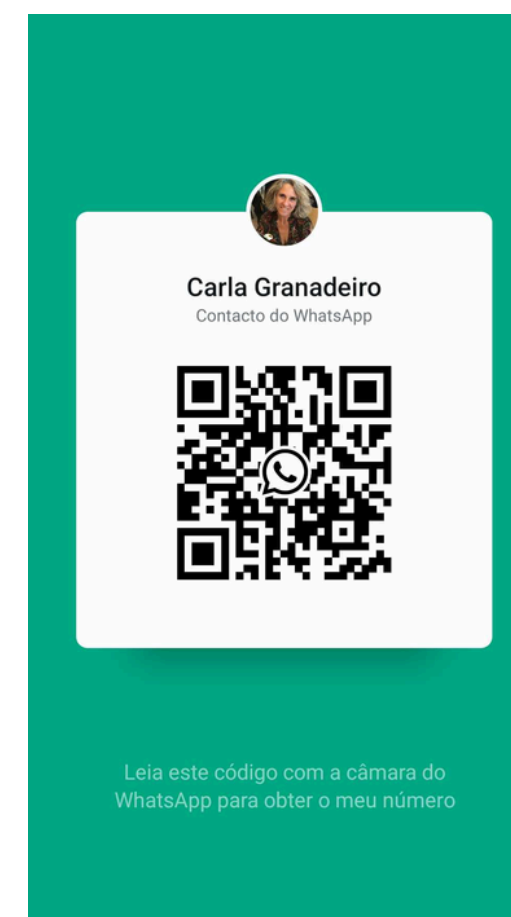
Contacts



Carla Granadeiro

Carla Granadeiro is on Facebook. Join Facebook to connect with Carla Granadeiro and others you may know. Facebook gives people the power to share a...

 facebook.com



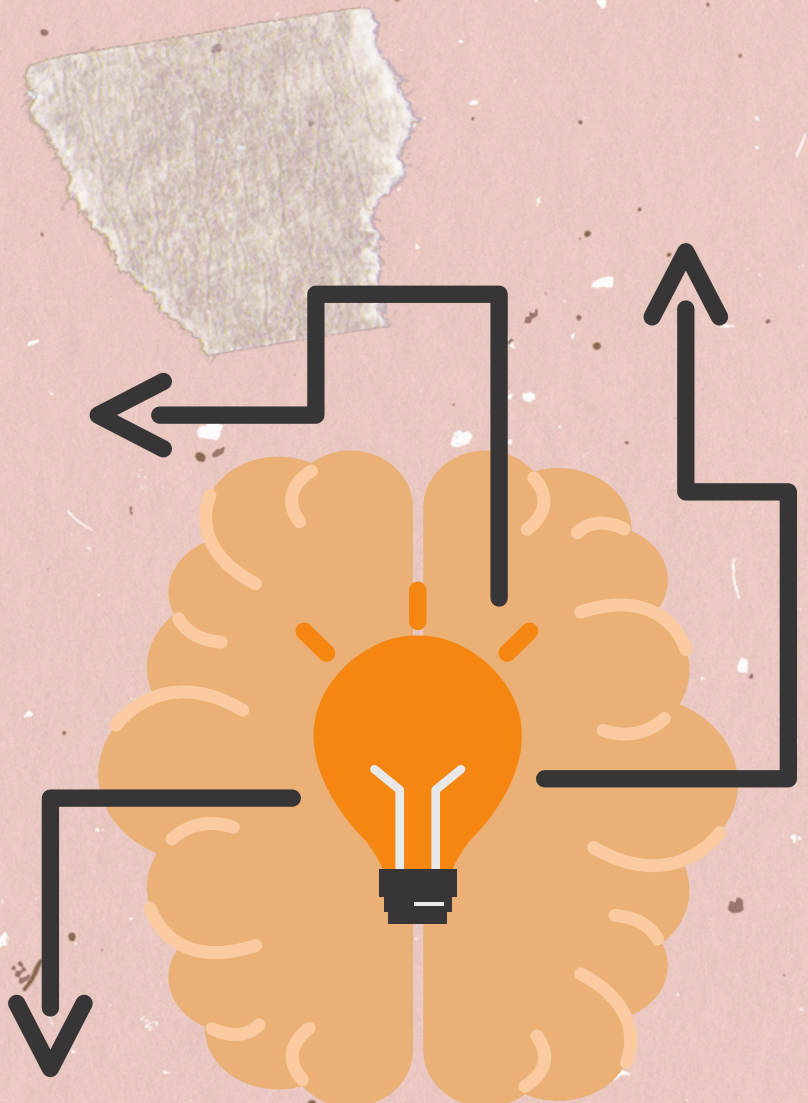
carla.lima@agr-tc.pt

HELLO !!

My name is Guilherme Mota
and I have 53 years old.



**Guilherme
Mota**



I am an electrical engineering
teacher at Escola Secundária
Tomás Cabreira in Faro -
portugal

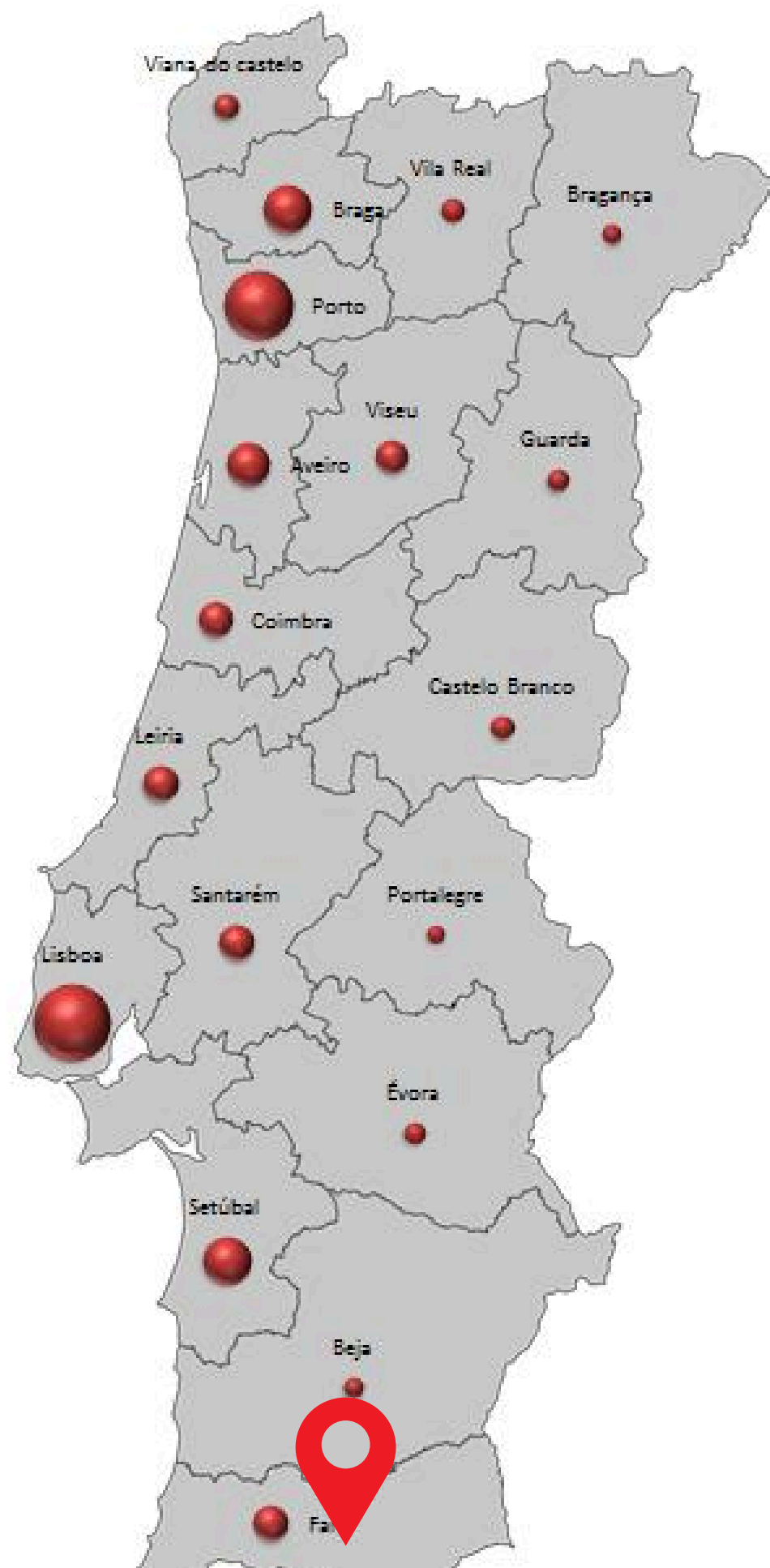
I was born and lived until I was 15 in Lourical, Pombal, Leiria



I lived from 15 to 29 years
old in Cortes - Leiria



From the age of 30 until
now I have lived in São Brás
de Alportel - Algarve



I took the Professional Technical Course in
Electrical Installations at Escola
Secundária Domingos Sequeira in Leiria



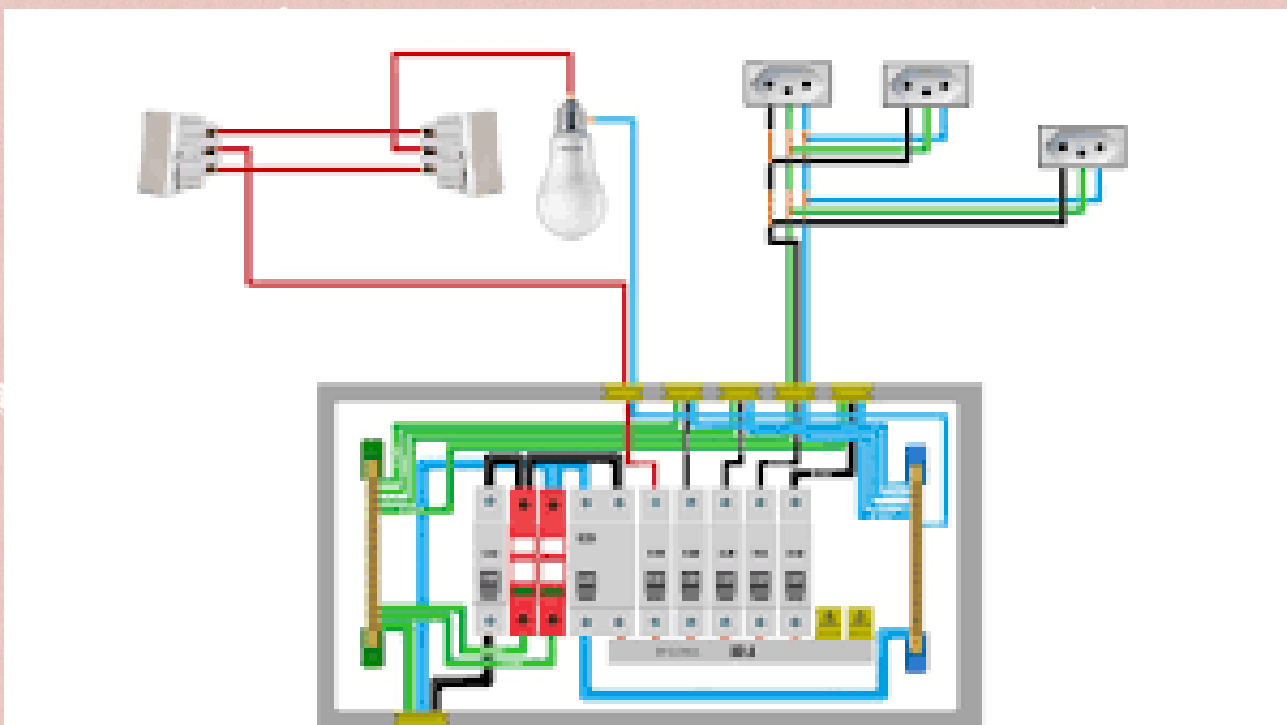
I completed my Bachelor's degree in
Electrical Engineering at the Polytechnic
Institute of Leiria



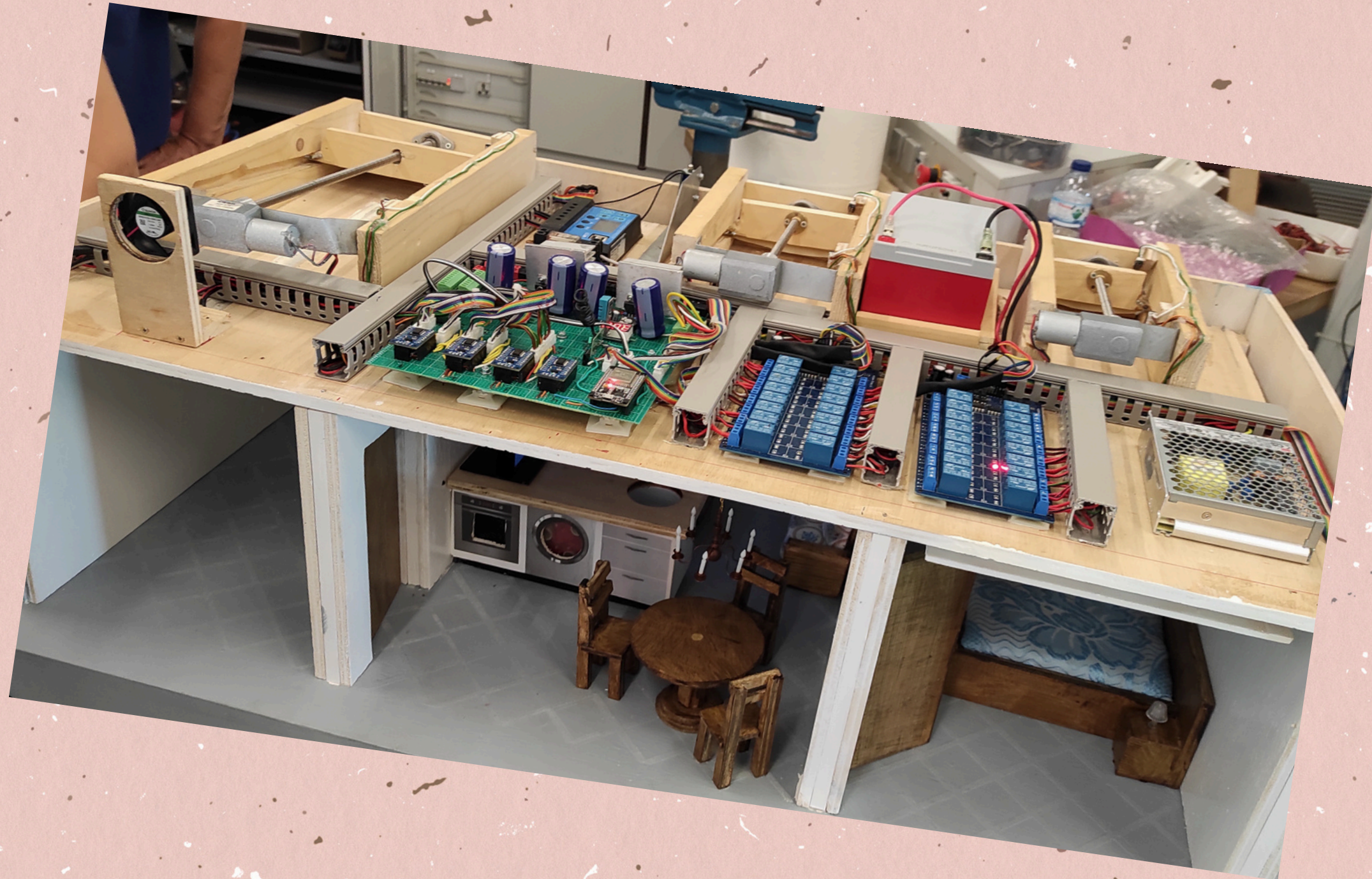
I have been a teacher since 1992, since 1999 I have been teaching at Escola Secundária Tomás Cabreira in Faro



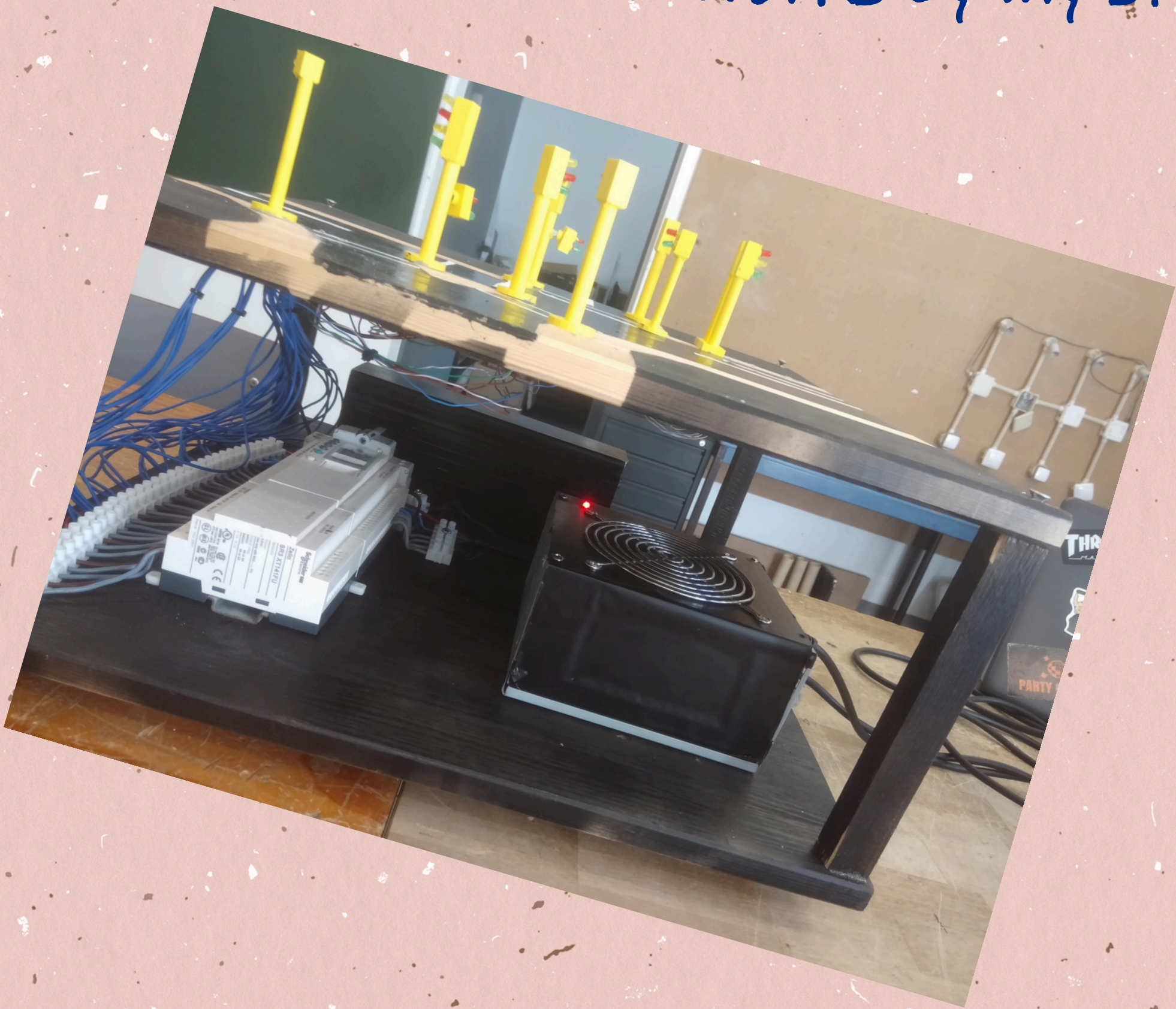
I am a professor of Mechatronics courses, I teach: electrical installations and industrial automation



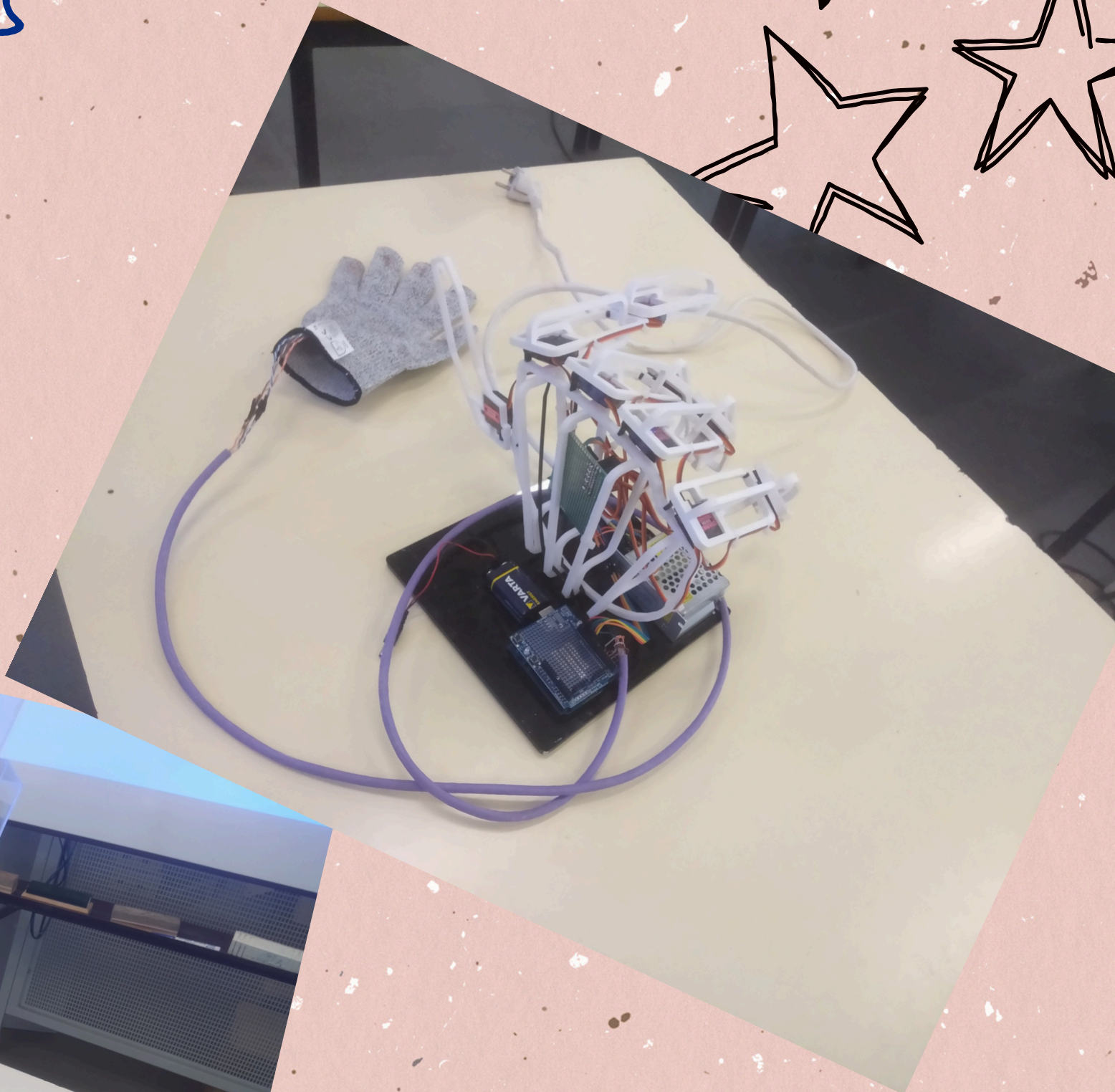
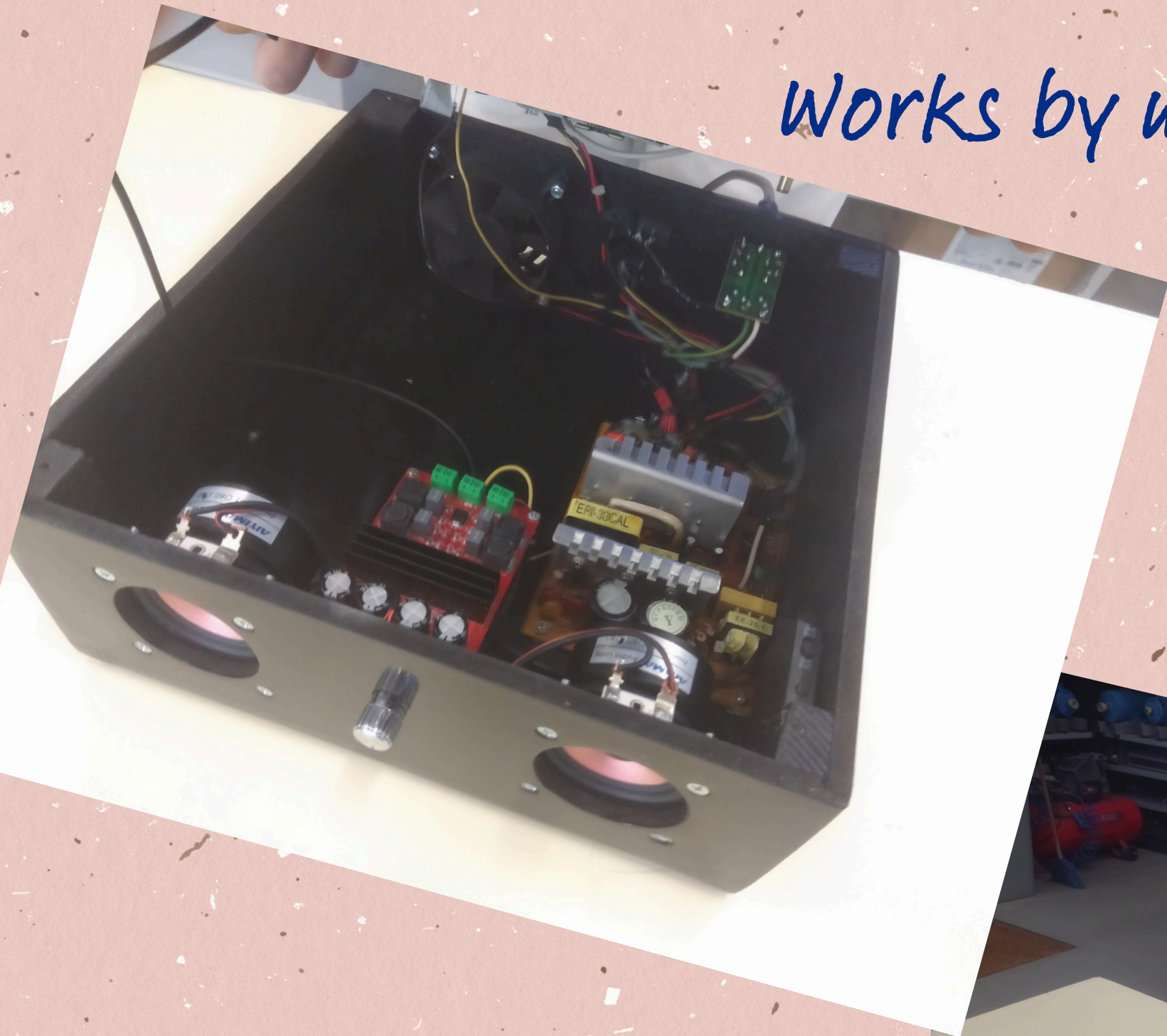
Works by my students



Works by my students



Works by my students



HELLO

**Maria
Torrinha**

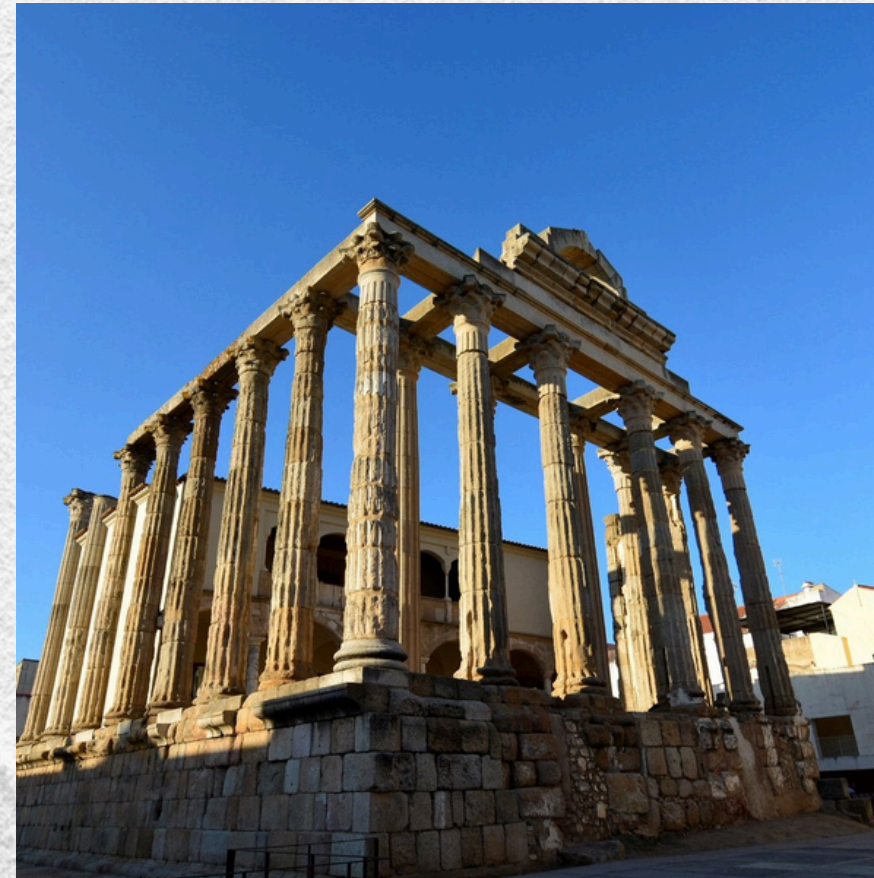
My name is Maria Torrinha and
I have 44 years old.

I am married I and have
two children.



Where did I come from

- I was born in Évora and grew up in Alcáçovas.



Évora



Alcáçovas

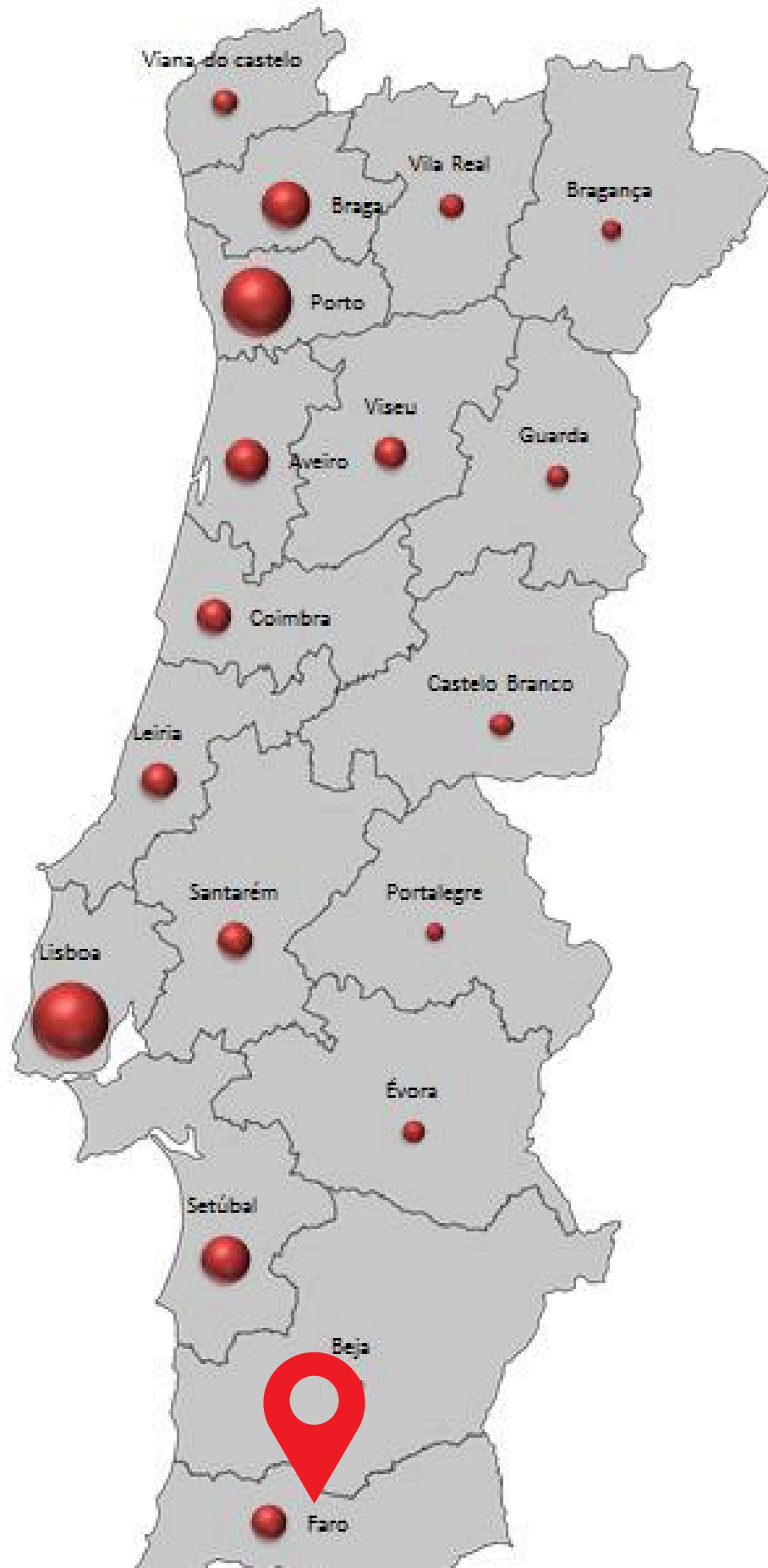
Where I studied

- I studied Electrical Engineering at the Polytechnic Institute of Viseu.

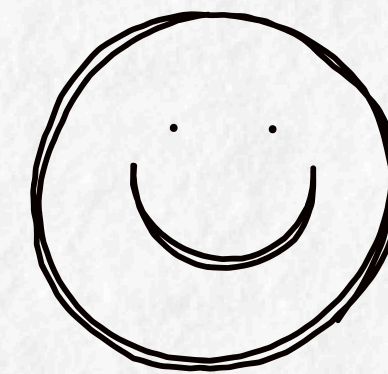


Where do I live

Now I live here in Faro.



In my free time



- I practice yoga;
- I play transverse flute.

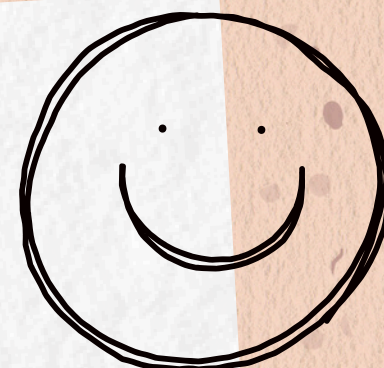


Previous projects



- Carrying out electrical installation projects
- Responsible for the license of an electrical installation company

Schools I've been to....

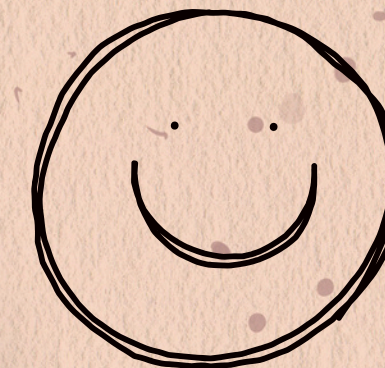


- *Tavira secondary school;*
- *Carregal do Sal secondary school;*
- *Pero do Alenquer secondary school;*
- *Silves secondary school;*
- *Vila Real de Santo António secondary school;*
- *lagos secondary school;*
- *Loulé secondary school;*
- *Olhão secondary school;*
- *Tomás Cabreira School Group - Current.*



Positions:

- Course director of the Professional Mechatronics Course - 3rd year;
- Adapt the internship location to the profile of each student.



Courses:

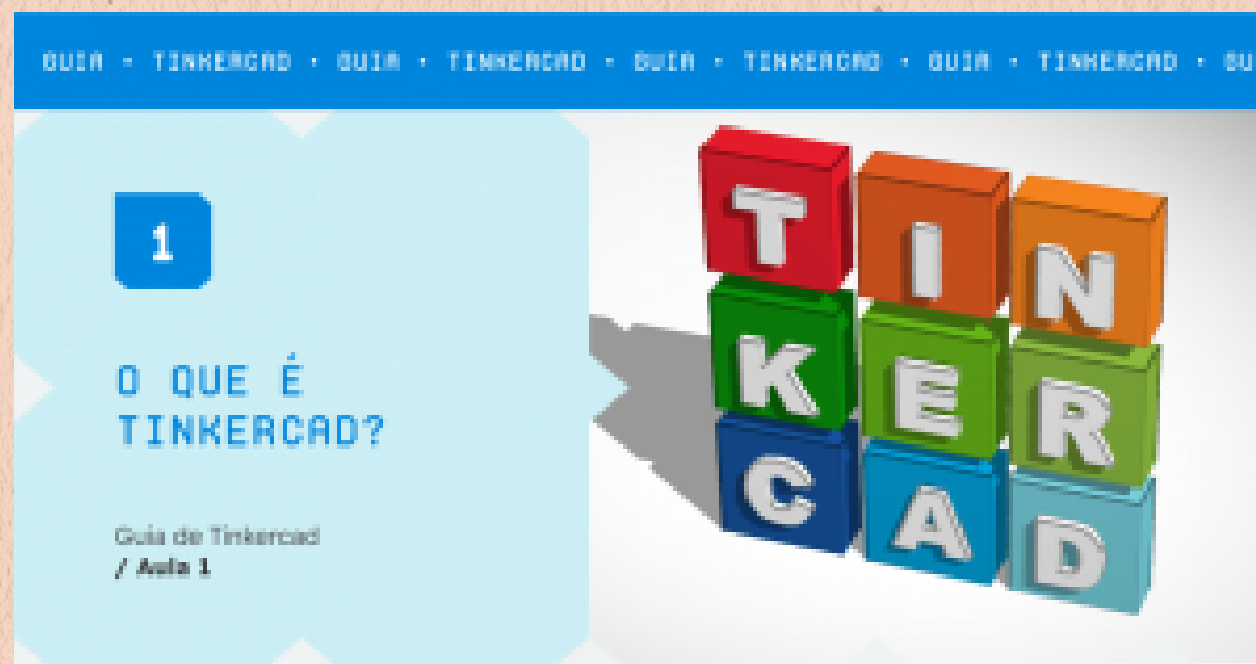
PMEC- Mechatronics professional course;

PEAC- Professional course in Electronics, Automation and Computers.

Some UFCD areas taught:

- - Design and assembly of electrical circuits;
- - Three-phase systems;
- - Transformers;
- - Microcontrollers and their applications.

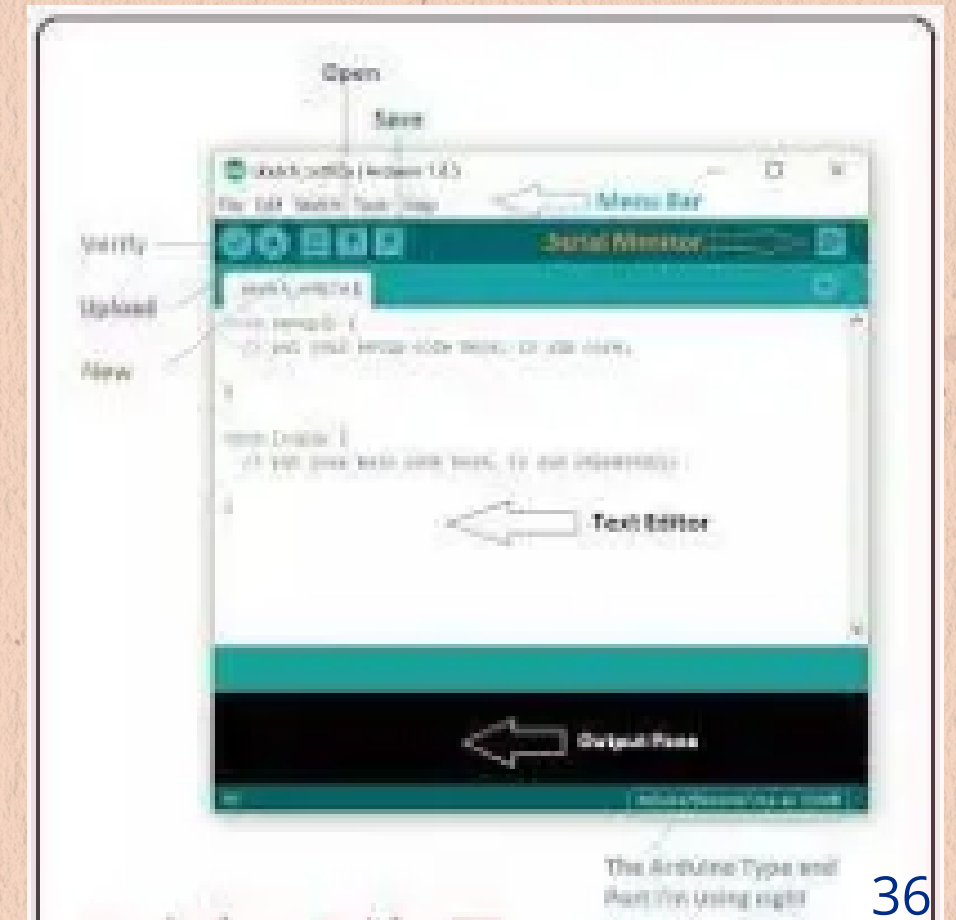
• Tools:



tinkercad



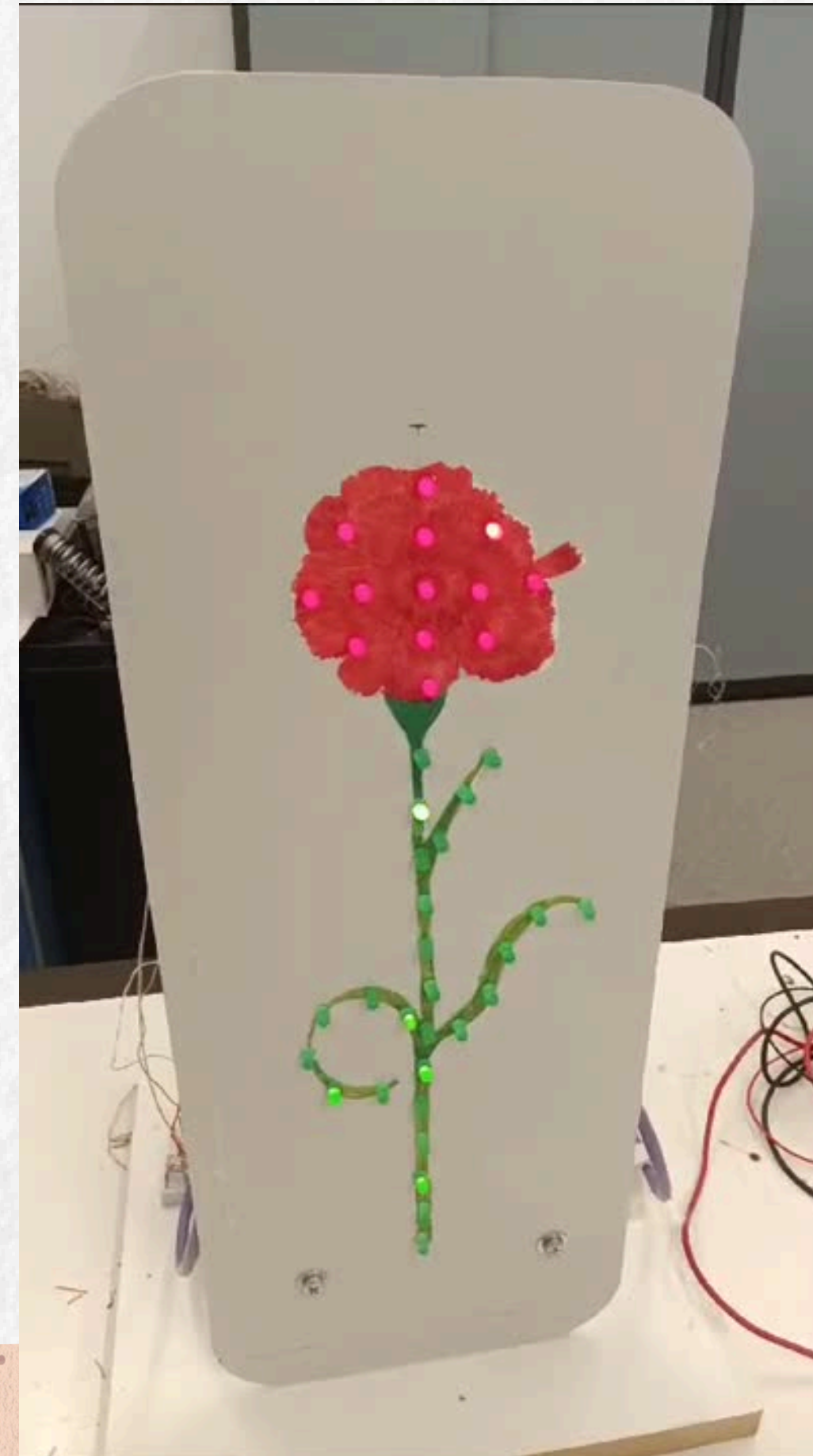
fritzing



Arduino ID

25 de Abril- Dia da Liberdade em Portugal

```
Atividade4 | Arduino IDE 2.0.2
Arquivo Editar Rascunho Ferramentas Ajuda
Arduino Uno
Atividade4.ino
1
2 const int ledPin [] ={4, 5, 6, 7, 8, 9, 10, 11, 12, 13};
3 int i;
4
5 void setup() {
6
7   for (i=0; i < 9; i++) {
8     pinMode (ledPin [i], OUTPUT);
9   }
10 }
11
12 void loop() {
13   for (i = 0; i < 7; i++) {
14     digitalWrite (ledPin [i], HIGH);
15     digitalWrite (ledPin [i + 1], HIGH);
16     digitalWrite (ledPin [i + 2], HIGH);
17     digitalWrite (ledPin [i - 1], LOW);
18     delay(100);
19   }
20   for (i = 8; i > 1; i--) {
21     digitalWrite (ledPin [i], HIGH);
22     digitalWrite (ledPin [i - 1], HIGH);
23     digitalWrite (ledPin [i - 2], HIGH);
24     digitalWrite (ledPin [i + 1], LOW);
25     delay(100);
26   }
27 }
28
```

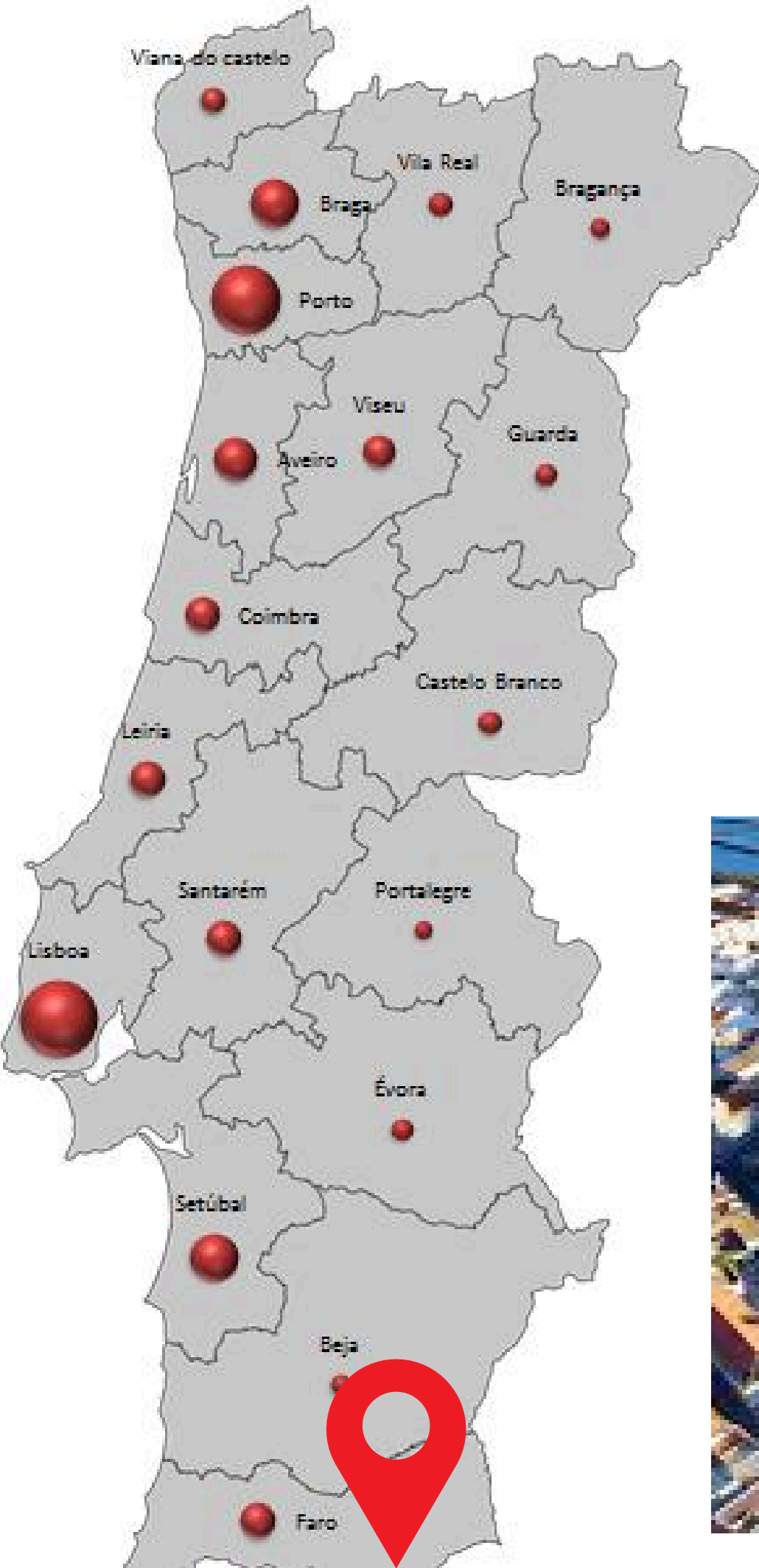


HELLO

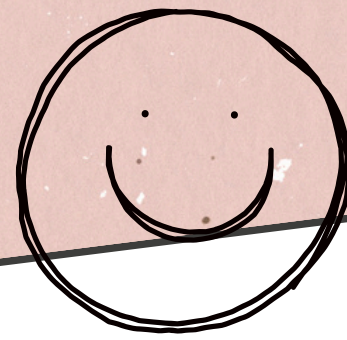


Welcome to Faro

I was born and raised in Faro, a beautiful coastal city in the Algarve Portugal.



A BIT MORE ABOUT ME



Rui Dias

I am 47 years old and happily married
I enjoy water sports like surfing,
stand-up paddle, fishing...
and snow snowboarding



My Education



UAlg

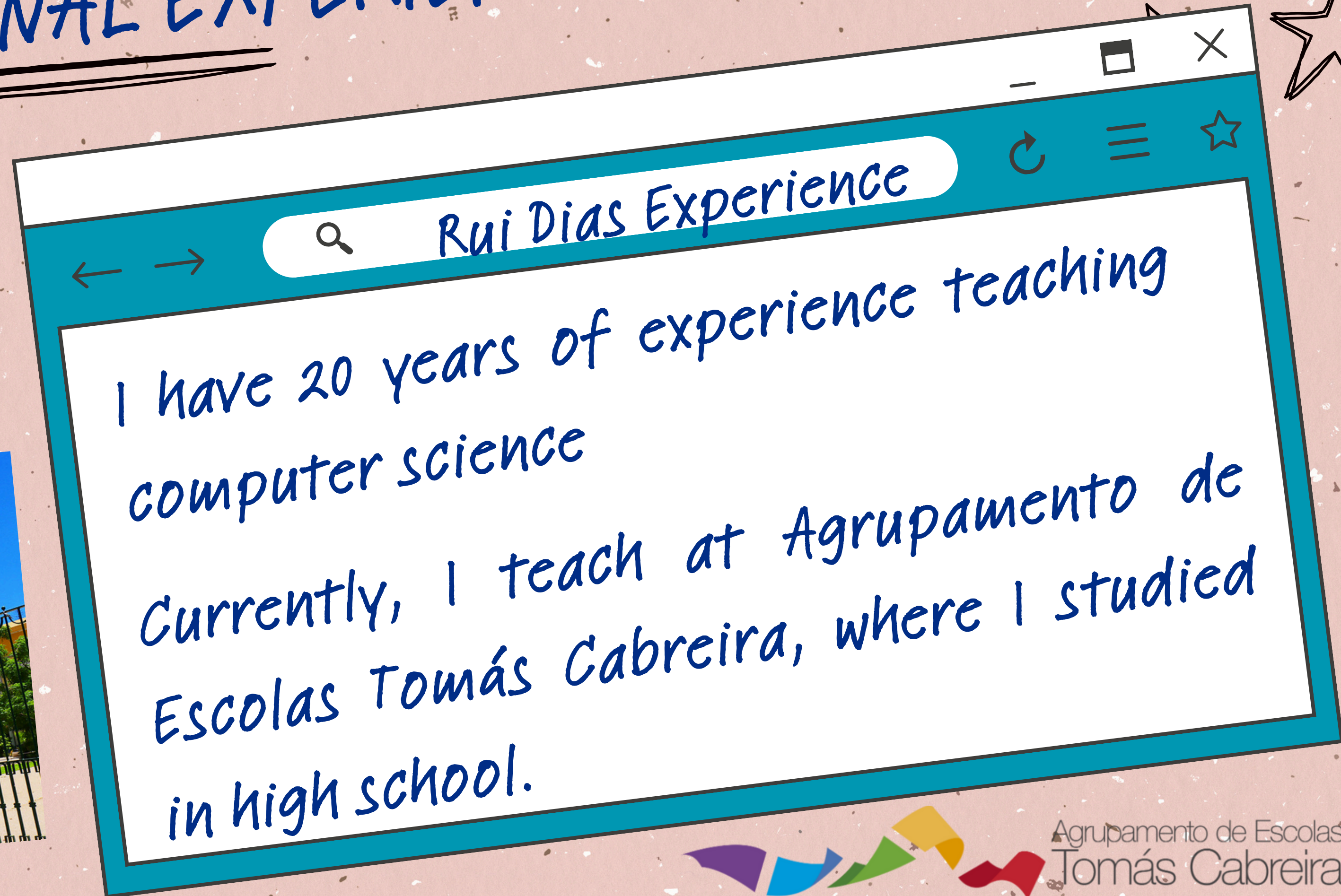
University of Algarve

5 years

- 4 years: I attended a Degree in Computer Science Teaching
- 1 year: Internship at a secondary school - Albufeira



PROFESSIONAL EXPERIENCE



I have 20 years of experience teaching
computer science

Currently, I teach at Agrupamento de
Escolas Tomás Cabreira, where I studied
in high school.



COURSES | TEACH

Rui Dias Teach

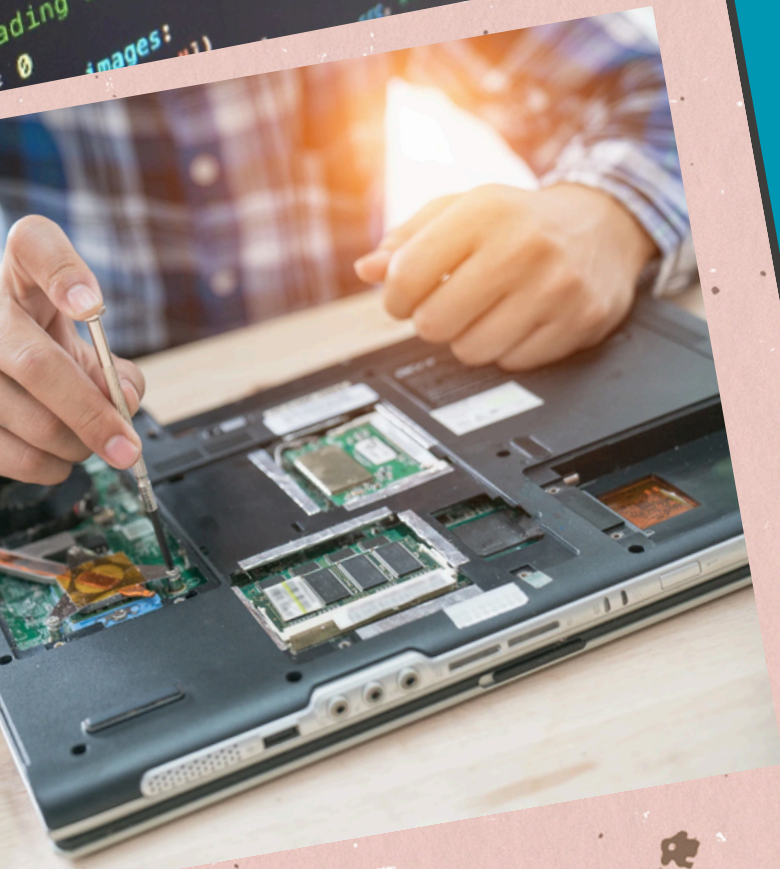
- Middle School General Education

- Professional Courses:

- Management and Programming of Computer Systems.

- Electronics, Automation, and Computers.

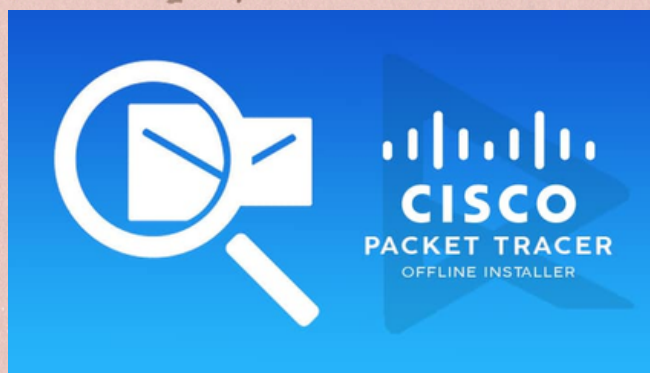
```
...read from the website
response.status_code (if you get 502, try removing the url)
response.status_code != 200:
    status: {response.status_code} - Try removing the url!
status: {response.status_code}
BeautifulSoup to parse the response object
soup.find_all("img", attrs={"alt": "Post image"})
adding images
0 images:
```



SUBJECTS I COVER



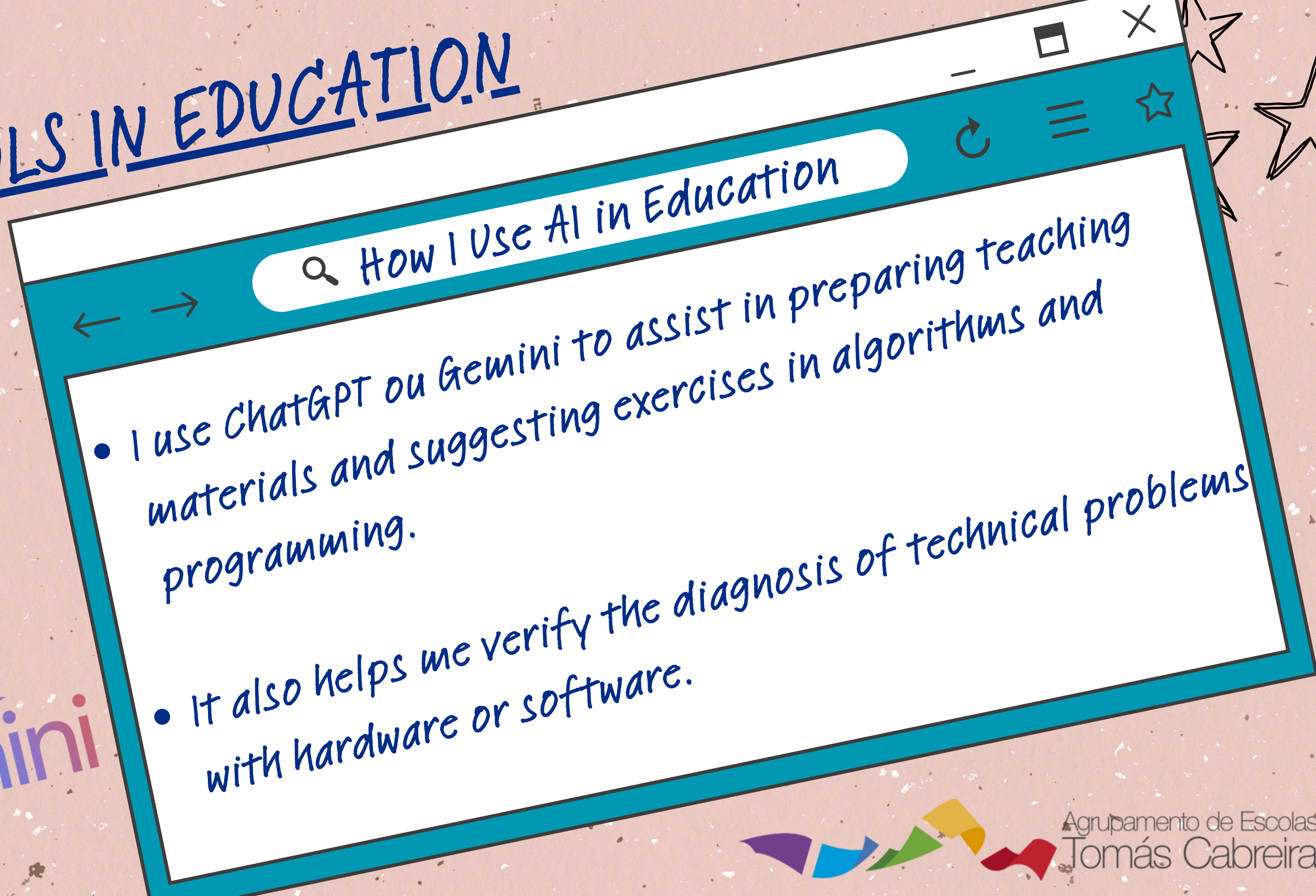
PIXLR



AI TOOLS IN EDUCATION



Gemini



Thank you !!!

Welcome!



Agrupamento de Escolas
Tomás Cabreira

rui.dias@agr-tc.pt

Добродошли

Dobrodošli



Vitajte



Bem-vindos



ABOUT ME:



Sandra Nobre

Academic and professional qualifications

University of Algarve, FCT, Faro



Bachelor's Degree in Mathematics
(1999)

Master's Degree in Mathematics
for Teaching (2007)

University of Lisbon, IE, Lisbon



PhD in Education
Mathematics Didactics (2016)



Professional experience

Mathematics teacher (1999)

7th grade - 12th grade
(students age 12 - 18 years old)

Invited Teacher at University of Algarve

Álgebra and functions.

Technologies in mathematics
education.

Internship supervisor for future
teachers.



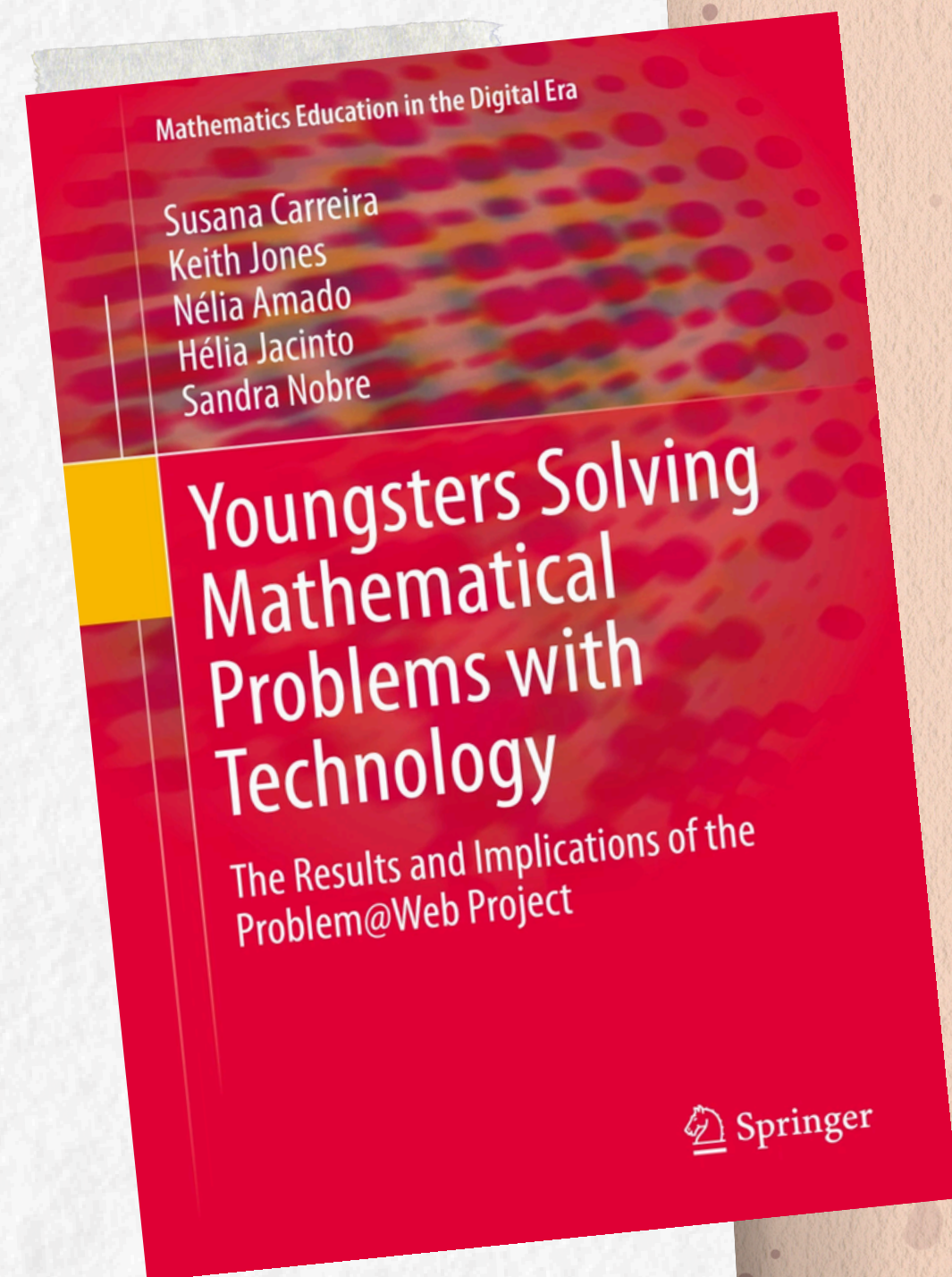
Some projects

Mathematical problem solving: Views on an interactive web based competition (Sub12&Sub14)

Fundação para a Ciência e a Tecnologia (Lisboa, PT)
GRANT_NUMBER: PTDC/CPE/101635/2008

The development of students' algebraic thinking.
Fundação para a Ciência e a Tecnologia (Lisboa, PT)
GRANT_NUMBER: SFRH/BD/69917/2010

Youngsters Solving Mathematical Problems with Technology
The Results and Implications of the Problem@Web Project
(2016)



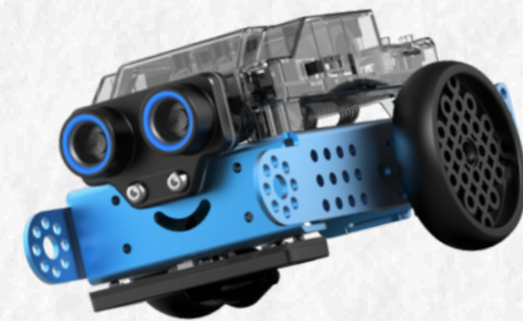
REMO Project - Educational Robotics in Mathematics and Optimization

Students 5th - 9th grade

Once a week (Thursday)

Main Objectives

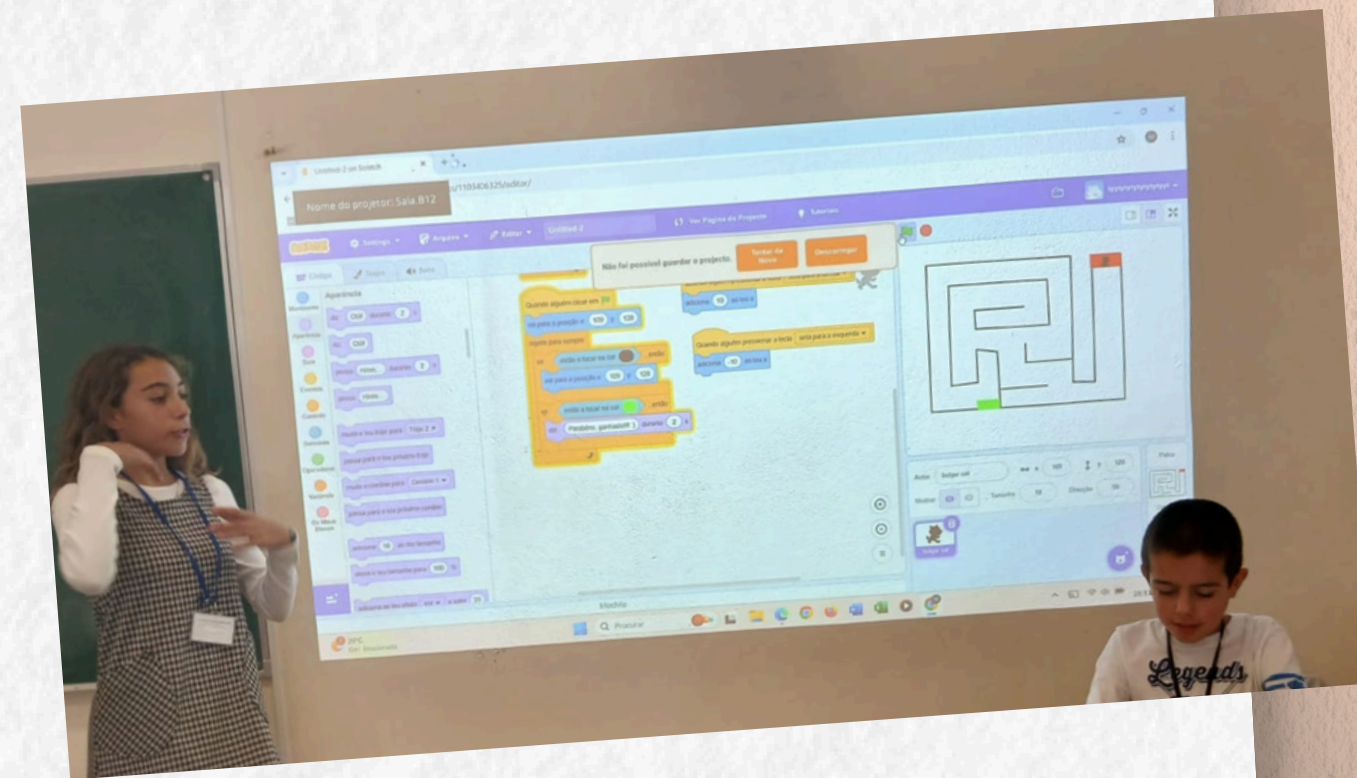
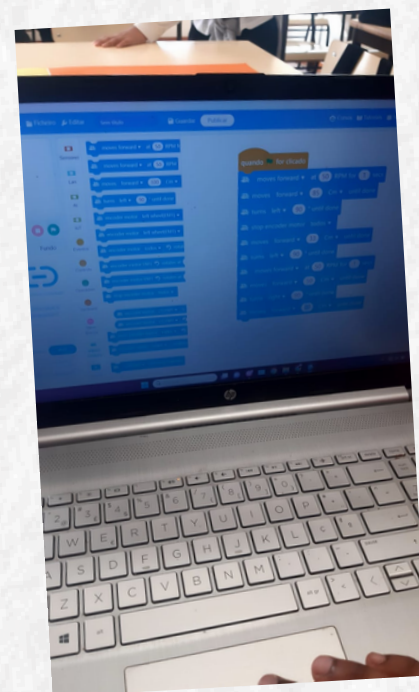
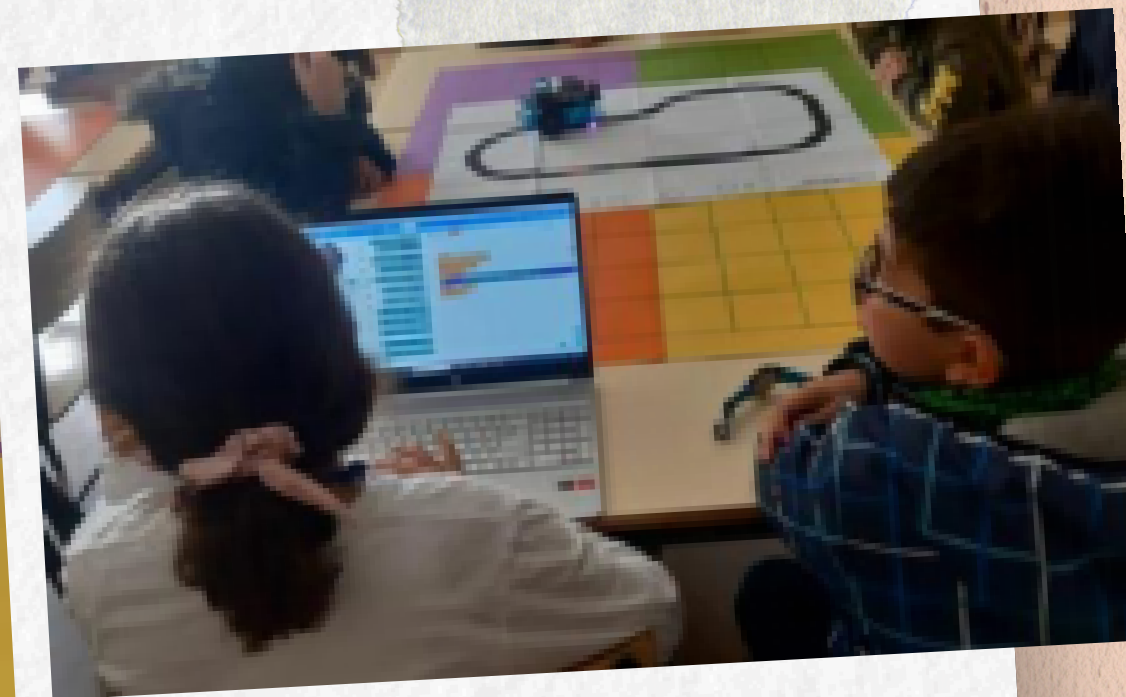
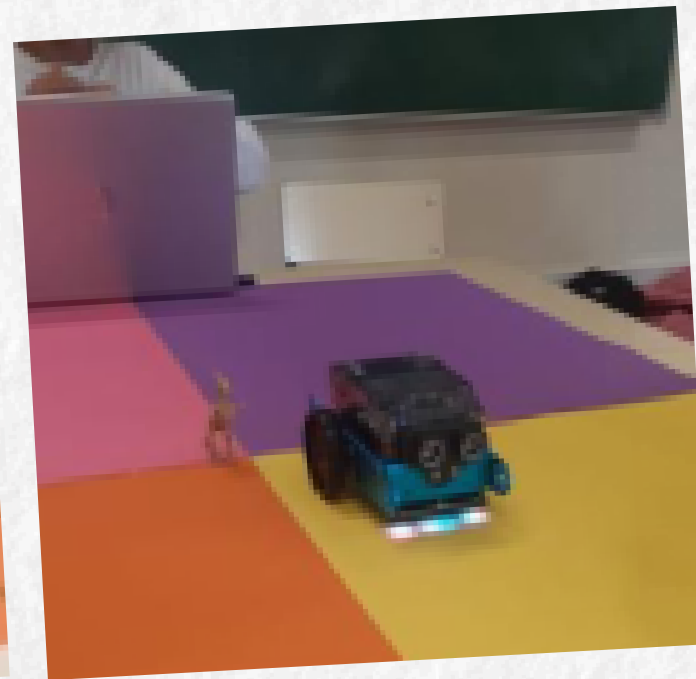
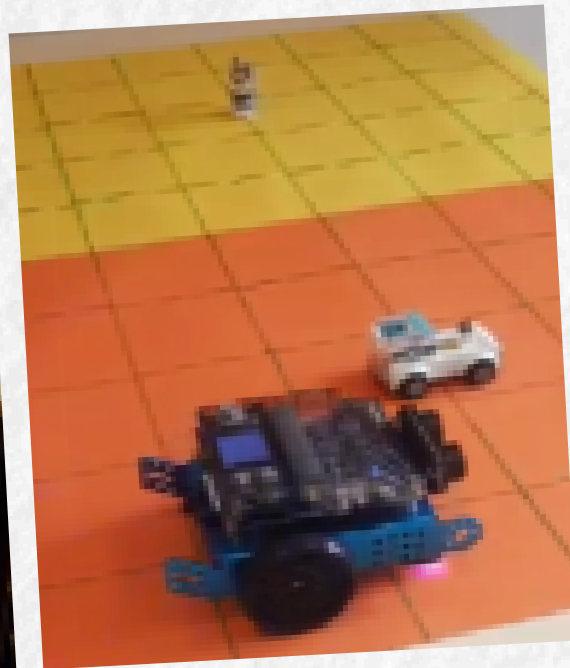
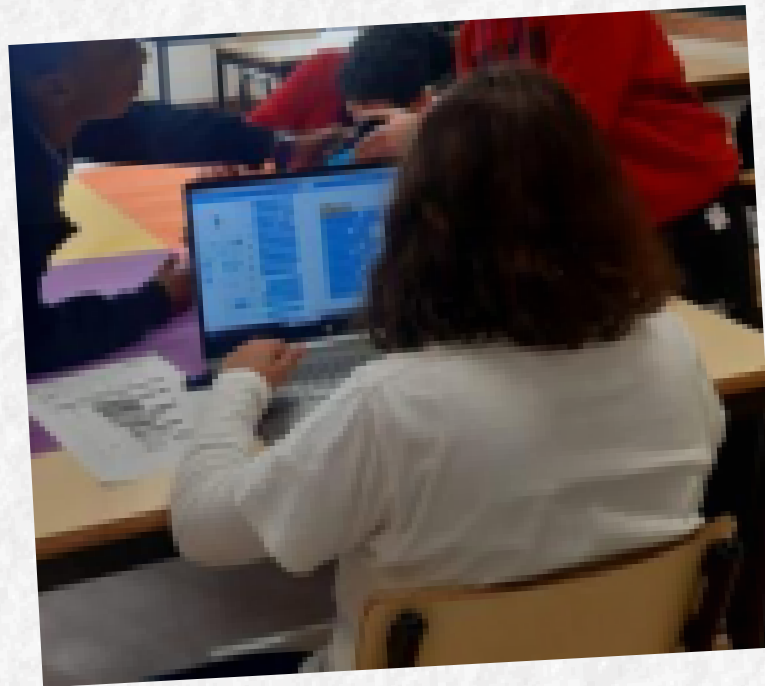
- Integrating mathematical concepts and optimization with educational robotics, allowing students to visualize the practical application of these concepts;
- Promoting the development of computational thinking and associated practices (abstraction, decomposition, pattern recognition, algorithm design, and debugging);
- Promoting the development of the ability to solve complex problems, logical reasoning, and critical thinking;
- Stimulating creativity, collaboration, and the ability to make informed decisions;
- Promoting the interest in STEAM.



MBOT 2



REMO Project - Educational Robotics in Mathematics and Optimization





sandra.nobre@agr-tc.pt

<https://www.researchgate.net/profile/Sandra-Nobre>

<https://orcid.org/0000-0002-4062-6038>

Student profile:

- They like to work in companies and in jobs where the objective is visible.

Use of AI tools:

- Students most of the times are currently using them incorrectly.
- Example: carry out practical work reports. They cannot be creative and self-critical.

Future:

- CTE- Specialized Technological Centers: which aims to modernize educational and professional training establishments.

Obrigado



Хвала
Hvala

dankjewel



Thanks