

# My Life as an Engineer

in a few minutes

Beatriz Sousa Santos

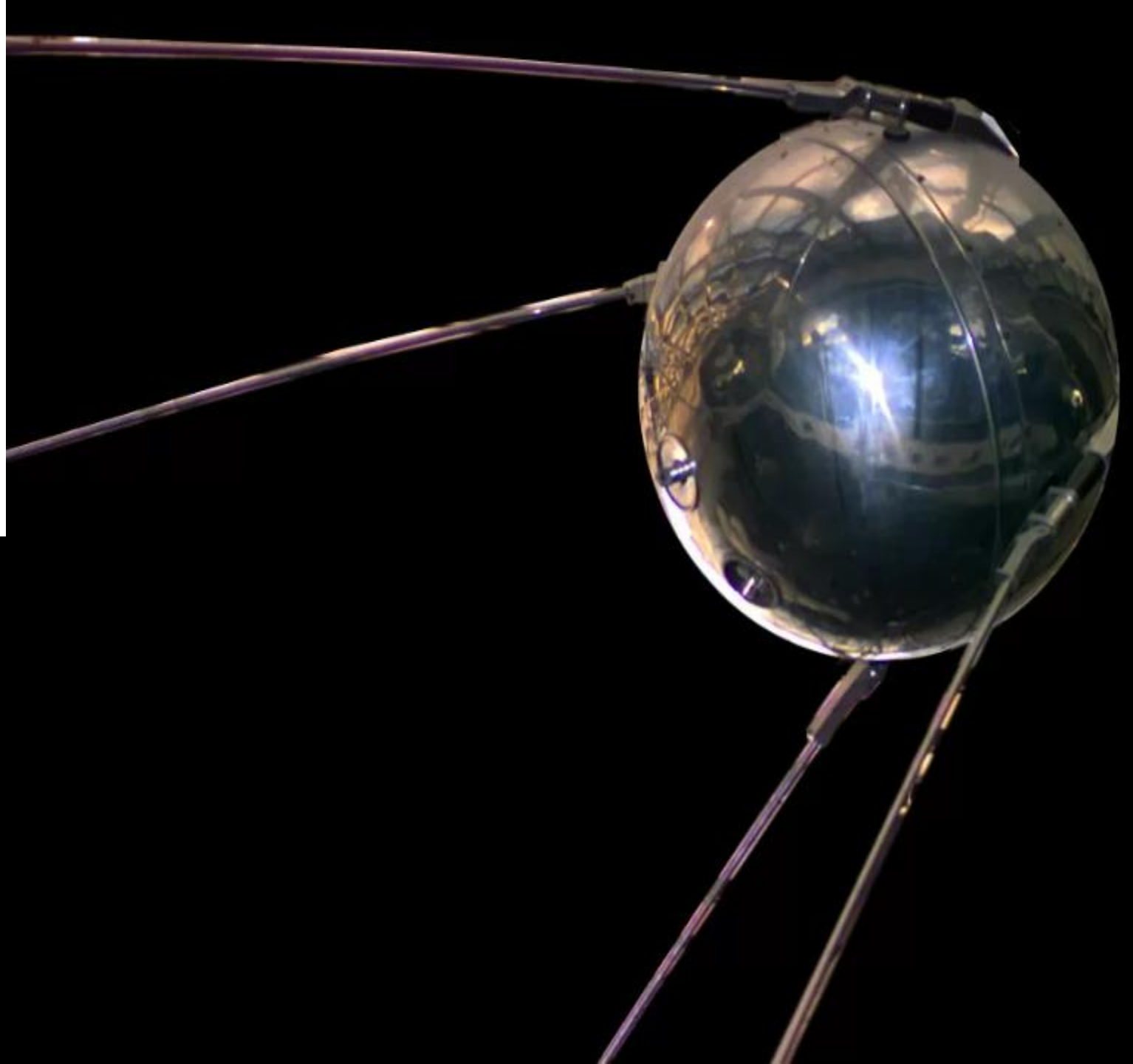
*Wie* UNL, June 2023



Portugal Section  
WIE Affinity Group

# The beginning

- 1957
- Lisbon



# Inspiration

- Apollo 11 - Man on the Moon - 1969
- 2001 A Space Odyssey - 1968



# Becoming an Engineer

- IST
- UA

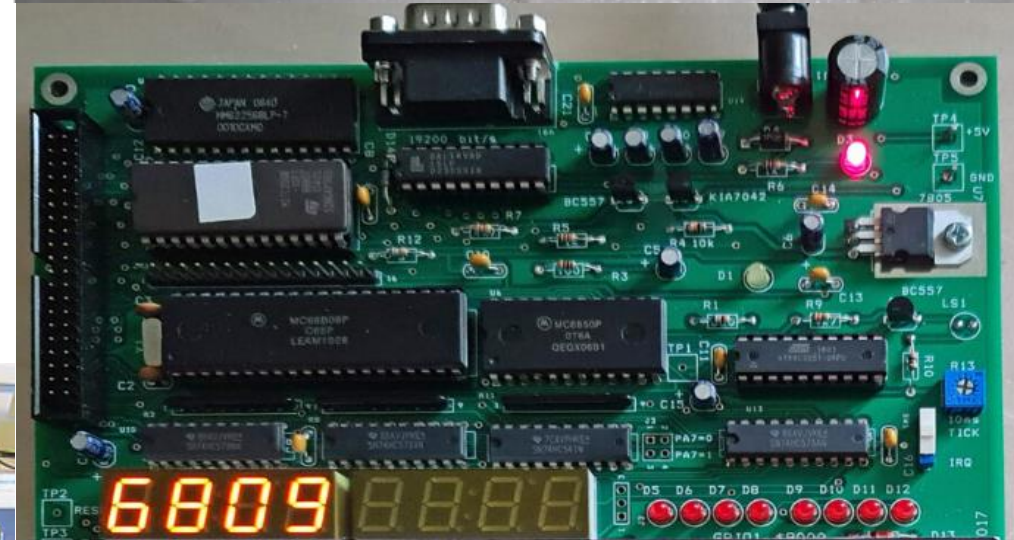
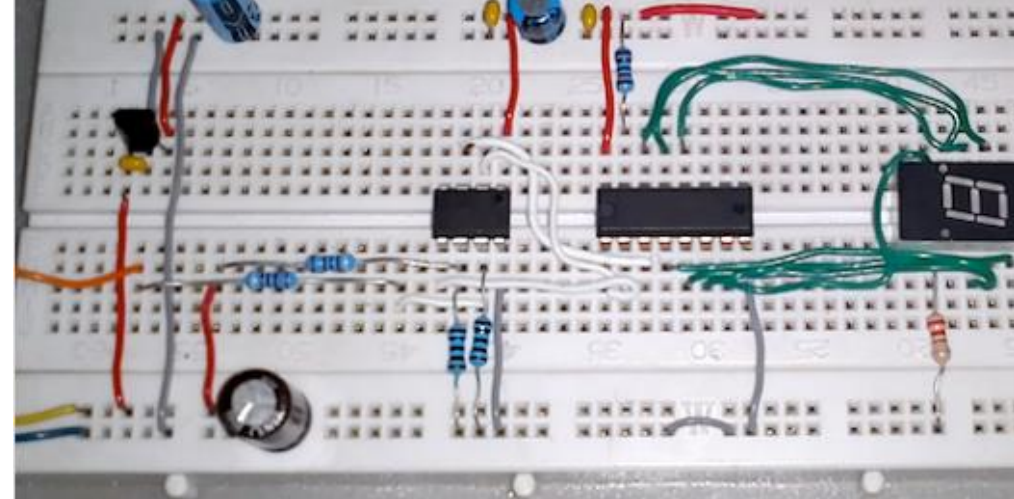
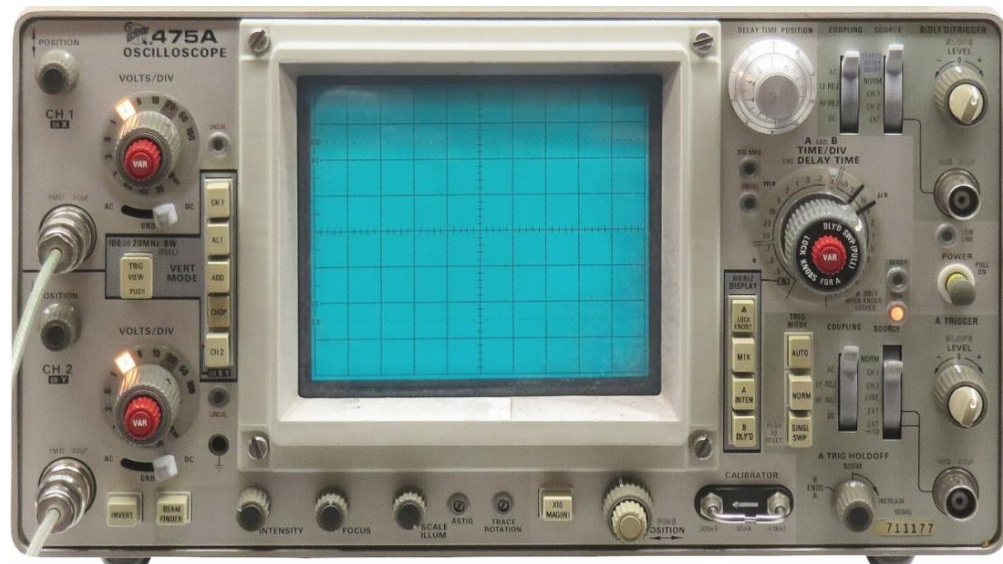


# Electronics

Analog, digital (TTL)

Tektronix

Motorola 6809 microprocessor



# Computing

Fortran, Assembly (Intel 8080, Motorola 6800, etc.)

Nova 4 Mini Computer:

16 bits AMD CPU, Ferrite memory,

1MB magnetic removable disk,

11" direct-view storage tube (1024×780 resolution raster)



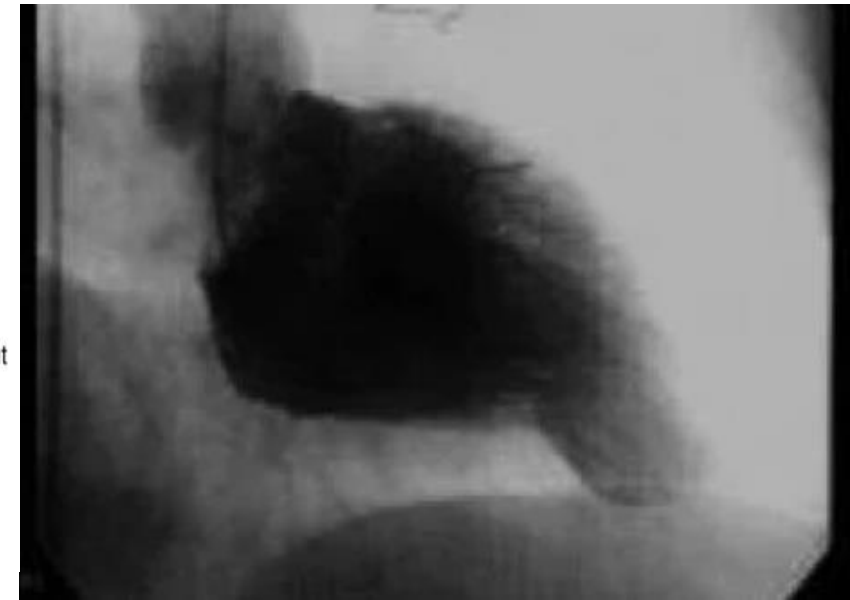
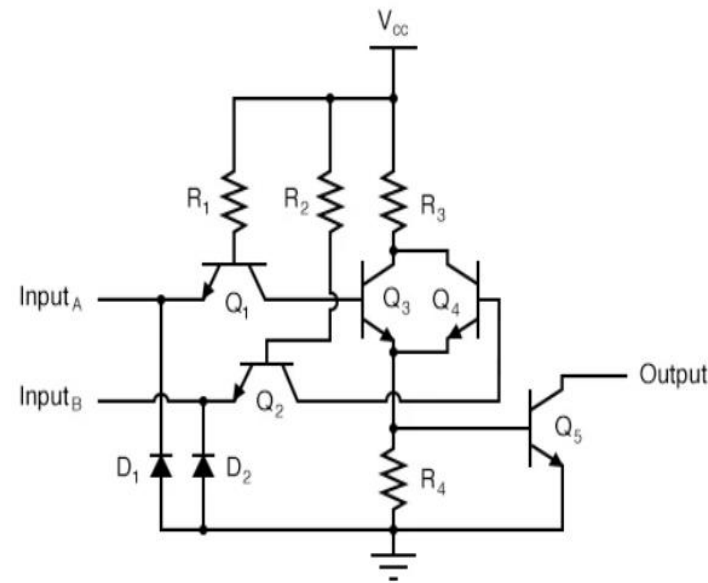
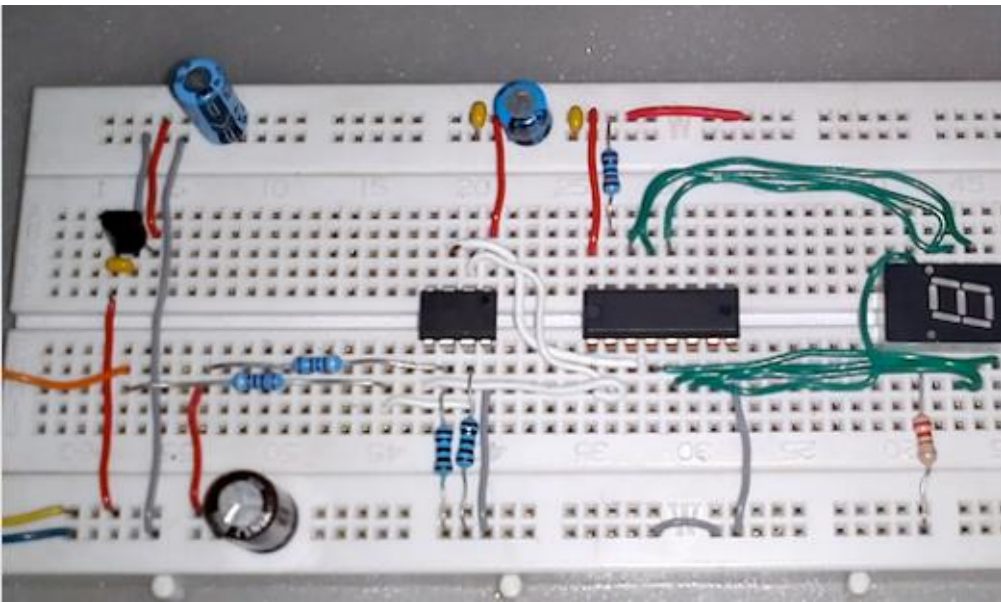
# Graduating



Class of 1980

# Becoming an Academic

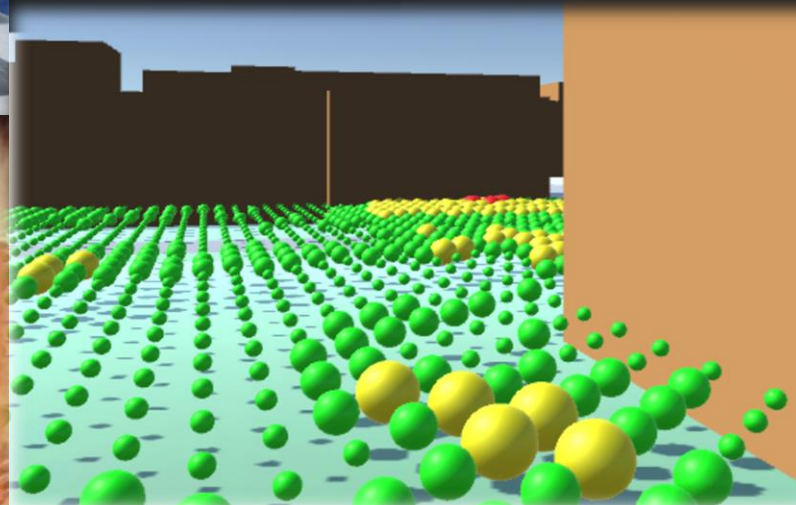
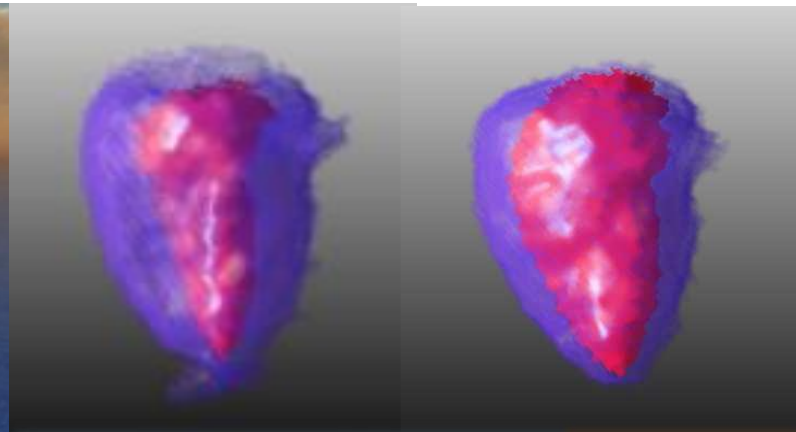
- Teaching Assistant
- PhD





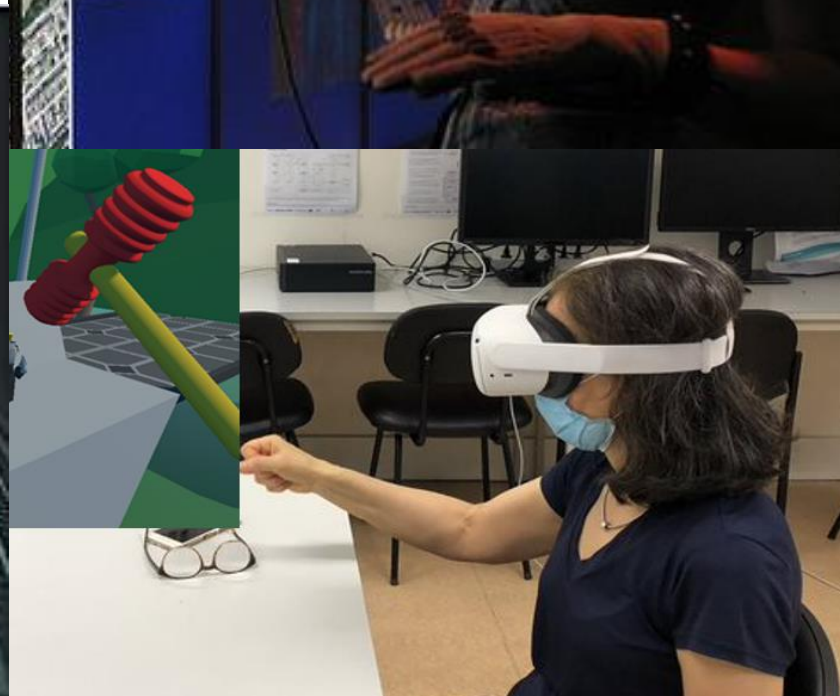
# An whole new world

## Computer Graphics and Visualization



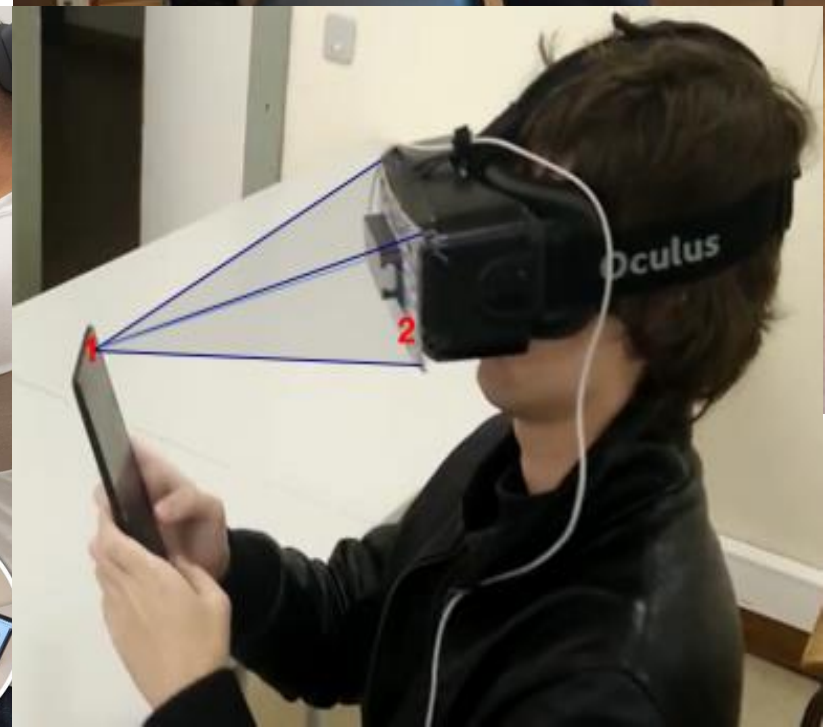
# Another ...

## Human-Computer Interaction (in less conventional systems)



# Yet another ...

## Virtual and Augmented Reality (in Industry, Medicine, ...)



# Looking back...

It has been:

- Varied
- Challenging
- Most interesting

To witness technology advancing for Humanity

Help others to become engineers

Propose new solutions

I recommend an Engineering career



**BSS @ IEEE Virtual Reality**

# Thank you ...

