



PROFILE

Technical computer engineer student from Sant Feliu de Llobregat with skills working on cybersecurity, robotics, software development and system administration.

I consider myself versatile individual with a passion for technology and its applications. As a computer science student, I have a strong foundation in programming languages and algorithms, as well as in problem-solving and critical thinking. On the other hand I also have a creative side, and love exploring the intersection of technology and art.

EXPERIENCE

ENGINEERING TUTORING

December 2018 - Present

- Teaching linear algebra, calculus, physics, hardware theory and programming to bachelor students in order to help them pass.
- I have taught lessons for Batxillerat, Informatics Engineering and Industrial Engineering students.

EXTRACURRICULARS

HACKUPC22 github.com/PolGs/Cognito

- Built a vibrating backpack for the visually impaired.
- Implemented using Python and JS an **STM32** and **Raspberry Pi**.
- Device was capable of detecting and notifying a human fall.

KAKUROS! github.com/PolGs/Kakuro

- Developed puzzle game using **Java** and Swing.
- Implemented algorithm that generates and solves Kakuros.
- Implemented GUI to play the game and input new Kakuros.

EP BACKDOOR github.com/PolGs/Persistent-Backdoor

- Developed a remote access tool for red teaming using **C**.
- Persistence on reboot and self replication functionalities.
- The final executable was not detected by most Antivirus.

DRIFTPOLY github.com/PolGs/DriftPoly

- Developed 3D racing game with drift mechanics using **Unity** and **C#**.
- Programmed car controller, vehicle customization and saves.

AUXILIARY RC TABLE github.com/PolGs/TaulaMobil

- Built an auxiliary remote control table to aid handicapped people.
- Used **Arduino** and Bluetooth to control the device via smartphone.
- The device was capable of carrying food and dishes.

EDUCATION

UNIVERSITAT POLITÈCNICA DE CATALUNYA 144 ECTS

Bachelor's Degree in Informatics Engineering Student (FIB-UPC)

ESCOLA MESTRAL

Batxillerat Tecnològic

CAMBRIDGE

First Certificate in English (B2)

SKILLS

IT & CYBERSECURITY

- Adversary simulation with **Nmap**, **wfuzz**, **ghidra**, **lin/winpeas** and **BurpSuite** alongside other tools.
- **Google Cloud Platform**, **nginx**, **snort** and **ModSecurity** used to host websites and servers securely using the cloud.
- Good **Linux** knowledge. Used it for many hours when doing university case studies and personal projects.
- Networking set-up and maintenance using CISCO or other hardware manufacturers.

PROGRAMMING:

- **C**, **Java** and **C++** used to implement many software solutions involving robotics, networking, GUIs, computing, games and cybersecurity.
- **Unity** and **C#** to develop 3D videogames for Android and PC.
- **JavaScript**, **Flask**, **Python**, **HTML**, **Maven** and **CSS** to implement a Web Applications

OTHER SKILLS

- Basic electronics knowledge and soldering.
- Good spoken and written English.