

# ANTOINE BINNER

## MICROELECTRONICS INTERN

### INTERNSHIP EXPERIENCE

During my internship, I discovered the fields of semiconductor physics and micro-controller architecture, which I now want to explore further.

Additionally, I learned to work in a professional environment, becoming self-sufficient on projects while finding information from other experts fields and submitting work on time.

### CONTACT

+33 7 69 54 05 69

antoine.binner@etu.u-bordeaux.fr

Bordeaux, France

### EDUCATION

2023 - PRESENT  
IUT BORDEAUX

- Bachelor of Electrical Engineering & Industrial Computing

### INTERESTS

- Basketball club (16 years)
- Software development
- Esports
- PC building

### LANGUAGES

- French: Native
- English: Fluent (B2 Level)

### PORTFOLIO



### WORK EXPERIENCE

#### Serma Safety & Security - Internship

JAN 2025 - JAN 2026

##### Cybersecurity hardware evaluation

- Fault injection on secured products to disturb their execution using various methods (laser, EM, BBI) in link of vulnerabilities found by software/cryptography experts.
- Use electronics tools (oscilloscope, power supply, pulse generator, ...) to launch tests and automate them using Python programming language

##### R&D - Development of a bench test

- Develop an HCI (Human-Computer Interface) using the PyQt library to control a near-infrared camera and a translation stage.
- Programming communication with the bench components and performing image processing on pictures received from the camera.

##### Professional Training

- Micro-controller architecture apply to fault injection
- Python IT automation certification by Google followed on [Coursera](#)
- Basics of JavaCard platform

### PERSONAL PROJECTS

#### VIDEO GAME DEVELOPMENT

2024 - ONGOING

- Oriented object programming in C# on Unity game engine
- Development of a video game since January 2025 and participated in 2 game jams (created a video game in 48 hours).

#### OTHER PROJECTS

PyQt application, website development, design of a game controller, electronics content creation

➡ Discover them in my [Portfolio](#)

### CURRICULAR ELECTRONICS PROJECTS

#### Tracker robot and Kart with remote control

JAN 2024 - JAN 2025

##### Design acquisition, programming and action part

- In charge of designing, verifying the sensors and programming the algorithm parts
- Learnt more about working with a larger team (8), designing optical sensors and programming a microcontroller.

### SKILLS

- Curious
- Team working
- Self-sufficient
- Learn where find the information
- Mettings deadlines
- Signal analysis
- Micro-controller architecture
- Semi-conductor physics
- Python
- Electronic common tools