

# AXEL PEREYROL

## Curriculum Vitae

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## EDUCATION

### DOUBLE BACHELOR | *On going*

2024 – 2026

- Double Bachelor Mathematics & Computer Sciences
- University of Montpellier

### PREPARATORY CLASS FOR GRANDES ÉCOLES

2022 – 2024

- MP2I - MPI
- Thiers high school, Marseille

### HIGH SCHOOL DIPLOMA | *with highest honours*

2019 – 2022

- Specialities : Mathematics, Computing Sciences (NSI), Physics-Chemistry
- Jean-Henri Fabre high school, Carpentras
- member of the student council

## NOTABLE EXPERIENCES

### COMPUTING SCIENCES

#### Phoneme Animation on a 3D Mask (OpenGL) | *Github link*

Dec 2025

- Phoneme animation of a 3D Mask made on Blender. (C++)
- Based on the user's inputs.

#### Thermal convection simulation (OpenGL) | *Github link*

Nov 2025 – present

- Academic work group on Fluid Simulation. (C++)
- I made the thermal convection base/part of the project.

#### Takuzu Solver and proof | *Github link*

2023 – 2024

- As part of my TIPE project (in Preparatory Classes), I ended up studying Takuzus.
- As many studies already have been made concerning Sudoku, Takuzu had none.
- I encoded a solver for Takuzus, and with an exhaustive algorithm, I empirically calculated the minimum of case that needs to be shown in order to get the unicity of the solution. (C)

#### ITER Robots Challenge

2019

- I participated to the Ways competition of the ITER Robots Challenge.
- I was in charge of the robot's software. (Python)

### CINEMA AND AUDIO-VISUAL

#### 47<sup>th</sup> Cinemed

Oct 2025

- I was selected as an official guest to be a part of the student jury of the 47th edition of the Cinemed, the mediterranean cinema festival in Montpellier.

### Involved in several movies set

since 2021

- I have played in at least 5 short movies, amongst them, two have won prizes and contest.
- I assisted the set of the filming in 3 or 4 movie sets.
- And I directed my own short movie in the Alpes. (Summer 2025)

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## SKILLS

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### PROGRAMMATION

#### Mastered languages

- Python, C, C++, Ocaml,  $\text{\LaTeX}$

#### Mastered tools

- Git, CMake, OpenGL

### LANGUAGES

French | Native

English | Advanced

German | Basic

### CREATIVITY

Krita | 2D digital drawing and animation.

Blender | 3D sculpting and modelling. Rendering and animation.

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## CERTIFICATIONS

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English C1 – TOEFL iBT (100/120) 2026

German A2 – German Language Diploma (Deutsches Sprachdiplom DSD). 2020


Aeronautics Initiation Certificate (BIA). | *with high honours* 2020

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## MISCELLANEOUS AND INTERESTS

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### ABSOLUTLY MAD OF CINEMA

-  Letterboxd : @triplaqs
- President of a student production association in Montpellier.
- Followed a Cinema Bachelor on my own with the lessons from the Paul Valery University.

### PASSIONATE OF DRAWING AND ANIMATION

-  @triplaqs\_comics
- Made a lot of Stop Motions as a teenager.

### SAXOPHONE AND VIDEO GAMES ENTHUSIAST

- Currently learning the saxophone by myself.
- Simple video Games enjoyer.

### CULTURAL/TRAVEL

#### School exchange in Wisconsin

Apr 2022

- I spent two weeks in Hartford and went to the Hartford Union High School (HUHS).
- I attended Mathematics and Cinema classes.

#### Woofing in Germany

Feb 2019

- I spent one week fed and housed, working in a farm (Lebenshof Tierlieben) in Tübingen.