

# Arthur GERST

Engineer student at ESTACA  
Paris-Saclay

## Looking for a 22 weeks internship as an engineer for summer 2025

Weeks 18 to 39 included

Paris - Saclay

Strasbourg

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### Languages

English	Toiec 955/C1
German	Fluent/B2
French	Native

### Skills

#### Mechanical design

- Fusion360
- Catia v6 / 3D Experience
- Solidworks
- Ansys

#### Electronic design

- Altium
- KiCad
- Eagle

#### Frequent user of

- FDM printers (for 10 years)
- CNC milling machine
- Offices suites

#### Programming

- Object-oriented
- Java, C, C++, Python
- Matlab, SimuLink
- Image recognition

#### Space related

- Space mechanics
- Satellite architecture

#### Teamwork

#### Project Management

#### Communication

#### Leadership

#### French Driving License

### Interests

Robotics  
Technical creations  
RC Model  
Explain & Popularization  
New technologies  
Green thumb

### Education

#### 2021 - 2026 | ESTACA

2<sup>nd</sup> year of engineering cycle - Transports - Aerospace  
Paris-Saclay



### Work experience

#### 2024 | Engineering internship - NAASC / CNES

##### 14 weeks engineering internship as electrical developer

- Creation of the electrical circuits for the engineering model of a Cubesat.
- Schematic and routage of complexes cards (BGA, high speed signals).
- Taking part in a space program with an experienced tutor.
- Test planning and tests of produced cards.

#### 2021 - present | Student association - SiERA

- Project manager and participant in the Float Lift & Fly Contest Flying Whale, first place and innovation award (2022 & 2023).
- Participating in the French Robotic's Cup 2024 (Eurobot).
- Member of the Dassault UAV Challenge, first place with a 3D printed vertical take-off autonomous flying wing.
- Secretary then Vicechairman (April 2022 - April 2023).
- President of the association (April 2023 - present).
- Management of the ESTACA Fablab with technical support for various projects and associations.

#### 2023 - present | Volunteer - Planète Sciences

- Co-writing 2024 regulations for the airship contest.
- Controls and certification for French Rockets launch campaign
- Team follow-up.

#### 2023 | Technical study - Vallourec

##### 8 months study for the creation of a robot with later production

- Search for solutions to meet specifications.
- Mechanical and electronic dimensioning.
- Design and create a complex electronic circuit.
- Creation of interfaces for robot control and operation.

#### 2023 | Engineering internship - Flying Whales

##### 5-week embedded systems engineer internship

- Creation of the verbal communication system on the airship simulator.
- Programming in C++ and Python to create physicals and software interfaces.
- Design and production of printed circuit board and the enclosure.

#### 2016 - 2021 | Robotics Association

- Three participations in the French National Sumo Robot Contest (2x 1st).
- Creation and management of a school association.
- Design of robotics projects to initiate young people.
- Training teachers in the use of digital tools.