

LOUIS CATAR

Student engineer in
double-degree Arts et
Métiers ParisTech
(ENSAM) / ETS Montréal

CONTACT

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LANGUAGES

FRENCH: mother tongue

ENGLISH : autonomous, language internship in Great Britain

SPANISH : B1, academic

LATIN (7 years), GREEK (5 years)

CAD SOFTWARES



OFFICE AUTOMATION - COMPUTING



TECHNICAL EXPERTISE

- Additive manufacturing
- Turning, Milling, Welding
- Intellectual property – patents
- Concepts in data science

FREE TIME

- Responsible for the students' workshop: wood and metal work, technical support
- OHS (September 2019)
- DIY: projects in mechanics and electronics (robot, drone)
- Skiing, climbing
- History: writing and editing shows
- Scouting (7 years)
- BIA : Aeronautics Initiation Certificate
- Drone : Aerial shots

INTERNSHIPS AND PAID ACTIVITIES

2020 (5 months) | Trainee engineer | TECHNICATOME – CEA DAM

- Design of a test bench for a nuclear maintenance robot (Thales),
- Head of studies for interdisciplinary projects for the Megajoule Laser of the French Atomic Energy Commission - Directorate of Military Applications
- Defense Empowerment

2020 (2 months) | Aviation contract mission | Daher Aviation

- Design of a mechanical arm for the Paris Air Show
- Realization of graphic rendering

2019 – 2020 (1 year) | Fablab Manager | ENSAM

- Coaching and training of campus staff in additive manufacturing,
- Laser cutting and prototyping methods
- Machine maintenance and troubleshooting

2019 – 2020 (1 year) | Resident technical manager | ENSAM

- Campus Standards and Safety Working Group
- Management of the compliance of the students' machine park

2019 (1 month) | operator internship | NEXTER

- Retrofit" on a chain of armored vehicles
- Design of solutions improving the ergonomics of maintenance

COMPETITIONS AND PROJECTS

2020 | Creation of the project « Gadz'Arts vs Covid » | Union des Elèves

- Pilot of the federation of student makers intercampus
- Setting up and management of a technical working group proposing low tech solutions against the health crisis.
- More than 20,000 visors and 10,000 masks produced in multi-sites
- Responsible and management of a collect of €12,000

Sept 2019 – Feb 2020 | Career Olympics | Worldskills France

- Team category: "Industrial Production »
- CAD, welding, boilermaking, machining, electronics
- Silver medal Grand Est region

Apr – June 2019 | « Génération ISS » contest | CNES

- CAD Manager
- Design and production of a demonstrator for astronauts on the International Space Station (ISS)
- National Center for Space Studies

Janvier 2020 | Design Challenge | ENS Lyon

- Design of a leg orthosis for the biomechanics lab
- Using generative design for 3D printing

Nov 2018-March 2019 | 2nd prize | Australian eChallenge

- Research work on a new 3D printing process and realization of a prototype
- \$5,000 award at the international final

TRAINING

