



JULIEN CARDEILLAC

GENERALIST ENGINEER



DETAILS

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ADDRESS

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13260 Cassis

PORTFOLIO

www.julienardeillac.com

SKILLS

Programming
(Python, C++)

Visual effects, 3D animation
(Blender, After Effects)

Full-stack web development
(HTML, CSS, JavaScript, TypeScript,
React, Node.js, SQL, MongoDB)

Video Editing, color grading
(Premiere Pro, DaVinci Resolve)

Machine Learning
(Pytorch)

CAD
(Catia, 3D Experience)

Audio Mixing, sound design
(Ableton Live)

LANGUAGES

French
Native

English
TOEFL iBT : 102/120

German
Intermediate

INTERESTS

Filmmaking
CGI / Visual effects
Music Production
(<https://soundcloud.com/karde13>)
Philosophy / social sciences

EDUCATION

Arts et Métiers - Engineering Degree

Aix-en-Provence / Paris

Expertise in computational fluid dynamics
2020 - 2024

Top **generalist engineering** school: electronics and electrical engineering, computer science, mechanics, energy, manufacturing processes, industrial product design, lean management, supply chain, project management.

Preparatory School PT* - Lycée Jean Perrin

Marseille

2018 - 2020

Preparatory class for admission to elite engineering schools

PROFESSIONAL / ACADEMIC EXPERIENCE

Research Project, Biomechanical Visualization Web Application

Paris

Sept-Nov. 2023

- Academic project in partnership with a University Hospital, creating a motion capture system for patients undergoing rehabilitation
- Creating a **web-based visualization interface** using **React** and **Three.js**, enabling doctors to monitor and record patient movements for rehabilitation purposes

R&D / Software Engineer (Internship) - Mocaplab



Aubervilliers

March-Aug. 2023

- Research and development project on Eye Tracking technology (ocular motion capture), **hardware/software prototyping** (Python)
- Training of a **deep learning model** for ocular motion recognition
- Preparation of sets and directing actors for Motion Capture shoots

Research Project in Industrial Robotics Software

Sept-Nov. 2021

- Designing a digital chain for a 6-axis industrial robot intended for precision welding tasks
- Development of a Catia V5 **plugin in C++** to convert 3D data into mechanical instruction sequences

Music Festival Programming - Gala of Arts et Métiers

Sept 2021 - Aout 2022

Management of contracts with musical artists, scheduling of performances, and resolving issues during the event

Freelance Advertising Production

Creation of videos: real estate and dental office presentations, after-movie of events organized by the Arts et Métiers school, advertisements for an online business.

Internship - Richardson

Marseille

August 2021

Preparation of orders and handling of plumbing materials.