

Nicolas Gangnant

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EDUCATION

Master of Science in Materials and Structures for Aerospace

Paul Sabatier University (France) – 2018/2020

Shaping and experimental characterization of materials – Aeronautic materials processes – Future trends in aeronautic techniques – Development of ceramic, metallic, polymer and composite materials – Characterization and properties of materials – Electronics

Bachelor's degree in Chemistry

University of Orleans (France) – 2014/2018

Physical chemistry – Organic and analytical chemistry – Materials science – Environmental chemistry – Electricity – Optics – Mathematics

LANGUAGES

- ✓ English : proficient (level B2)
- ✓ Spanish : beginner (level A2)

HOBBIES

- Music 
- Sports 

FURTHER INFORMATION

Mastery of the Pack Office (Word, Excel, PowerPoint)

Knowledge of structural calculation software: Patran, Nastran, Hypermesh

Knowledge of the following characterization techniques: SEM, TEM, profilometry, EDX, mass spectrometry, flame atomic absorption spectrometry, DSC, ATG...

PROFILE

I was able to acquire a solid scientific background through my studies and my internships. The synthesis, optimization and characterization of materials are my strengths. In addition, I was able to use these concepts to deepen my knowledge in the field of aerospace.

WORK EXPERIENCE

GIT (Galvanoplastie Industrielle Toulousaine) Cugnaux, France | Intern
February 2020 - March 2020. Master's degree internship (2nd year)

Completed tasks: Development and monitoring by chemical analysis Flame Atomic Absorption Spectrometry of the Micro Arc black oxidation process on aluminum.
- Bibliographic search
- Set up the operating ranges

CIRIMAT Toulouse, France | Intern

April 2019 - June 2019. Master's degree internship (1st year)

Completed tasks: Mechanical characterization of composite bone substitutes.
- Synthesis of hydrogels
- Supercritical CO2 drying
- Carrying out mechanical tests
- Characterization methods: SEM, mercury porosimetry, EDX

GREMI Orléans, France | Intern

January 2018. Bachelor's degree internship


Completed tasks: Characterization and synthesis of thin oxide layers by a physical vapor deposition technique.
- Production of thin films by pulsed laser deposition (PLD)
- Assembly of thermoelectric generators by lithographic process
- Characterization methods: SEM, optical microscope, profilometry, electrical resistance measurement

LafargeHolcim Toulouse, France | Laboratory technician


July 2019 - August 2019. Interim contract


Completed tasks:
- Treat hardened concrete specimens
- Organize the laboratory
- Make concrete samples
- Helping to develop a decorative concrete showroom


SKILLS

Sense of initiative 

Adaptation 

Teamwork spirit 

Organization 

Communication 

Computer science 