

Cyril NICARD

Availability: Immediately



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EDUCATION & QUALIFICATIONS

- **PhD**
Material Science
|2015-2018|
Paris Sciences et Lettres
Automotive Corrosion
Aluminium Coatings

- **Masters Degree in**
Material Science
|2011-2014|
Graduate School of
Chemistry, Biology &
Physics of Bordeaux
<https://enscbp.bordeaux-inp.fr/fr>

- **Masters degree in**
Magnetic Properties
Electronic Organic
|2015|
Faculty of Bordeaux I
Specialisation in R&D
<https://www.u-bordeaux.fr/>

LANGUAGES

- **English:** Professional level
TOEIC score: 885/990 (2014).
- **French:** Mother tongue.
- **Spanish:** Basics.

COMMON SKILLS

- Microsoft Office
 - Word
 - PowerPoint
 - Excel (VBA)
 - Visual Studio
- Origin
- Photoshop
- Vegas Pro 15

INTERNET



/cyrilnicard

For more information:

<http://nicard.cyril.free.fr>

EXPERTISE

Project Management:

Planning scientific experiments.
Risk, issue & conflict management.
Innovation and prototyping approach.
Health and Safety Executive.

Material & Chemistry:

Physico-chemical characterisation
Data processing and analysis.
Installation and maintenance of
scientific equipment.

EXPERIENCE

Research Scientist | IRCP – I2E | 2018 (4 months)

Graduate School of Chemistry ParisTech, ENSCP (75 France)

- Prototype design of experimental setups by 3D printing (FDM)
- Local electrochemistry • InSitu Spectroscopy
- Teaching at Masters level: metallurgy, electrochemistry

PhD | ArcelorMittal - IRCP - ED 388 | 2015 - 2018

ArcelorMittal Research Centre - Maizière-lès-Metz (57 France)

- Subject: "Corrosion mechanism of AlSi(ZnMg) coated steel"
(Anticorrosion protective coating for steel in automotive applications)
- Experimental design • Scientific equipment installation and maintenance.
- Project management • Scientific watch • Data collection and treatment
- Conferences presentations: EUROCORR Congress (Prague-2017 & Krakow-2018)
- Scientific Papers: One approved, two to be submitted
"Nicard, C., Allély, C., & Volovitch, P., Effect of Zn and Mg alloying on microstructure and anticorrosion mechanisms of Al-Si based coatings for high strength steel, Corrosion Science (2018)"

R&D Scientist | Canadian National Research Council | 2014 (6 months)

CNRC Research Centre - Boucherville (Canada)

- Objective: Reduce the contribution of petroleum-sourced components by using bio-sourced lignin in a thermoset material for automotive application
- Achievement: Material synthesized containing 10-30% of bio-sourced materials
- Trial supervision • Quality & Security policy • Cross-Cultural Sensitivity

R&D Scientist | SAFRAN Herakles | 2013 (5 months)

SAFRAN Industrial and R&D Centre - St-Médard en Jalles (33 FRANCE)

- Objective: Adapting pyrotechnic products used in airbags to create other devices for automotive and aerospace safety
- Achievements: New silicon based solution developed to stabilize and regulate pyrotechnic consumption
- Knowledge building & capitalisation • Engineering • Problem Solving • Teamwork

TECHNICAL SKILLS

- Spectroscopy (Raman, IR, UV, GD OES) • Microscopy (Optic, SEM, EDS)
- Thermodynamic analysis (DSC, TGA) • Local electrochemistry (EIS, SVET, AESEC)

INTEREST & HOBBIES

Creative Skills: • Autodidact in programming (C#, C++, Python, with OOP basics) and website creation (HTML, CSS, PHP, JavaScript, MySQL)

- 3D modelling (Fusion360) & printing (Ultimaker Cura)
- Geometric origami & paper modelling • DIY furniture maker

Travel: Took a sabbatical to experience Japan and New Zealand (2019-2020)

Association: • Private tutor • Summer camp counsellor (|2008-2014| - BAFA)

Hobbies: • Movie enthusiastic • Board games • Cooking

• Learning more about programming, science and new technologies.

Sports: • Climbing • Gym • Swimming • Badminton