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**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 programing, science and new technologies.

**Sports: •** Climbing **•** Gym **•** Swimming **•** Badminton

|  |  |
| --- | --- |
| **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. |

**Cyril NICARD**

Availability: Immediately

Flat 4, Rosina court

Catharine Street

CB1 3BQ Cambridge

(+33) 6 17 37 30 40

[nicard.cyril@free.fr](mailto:nicard.cyril@free.fr)

**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>