



**Damien  
SICARD**  
(he/him)

🏠 16/01/1992 (Montpellier, France)  
🏠 Aillevans, France  
✉ sicard.research@gmail.com  
🌐 www.linkedin.com/in/damien-sicard  
🐙 github.com/altar31

My name is Damien Sicard, a passionate **energy engineer** currently **finishing** an industrial **PhD** in Physics-Chemistry (**defense** planned between **June 19** and **July 19, 2023**). My **11 years atypical background** strengthened my desire to **push** always **further** and solve growing **challenges**. Thus, I become **self-taught** and i would like to reinvest in **research** or/and **industrial** environment my technical, scientific and soft skills. That's why, i am looking for an **Engineering** or/and **Research and Development** position.

## EDUCATION

### Ph.D. in Physics-Chemistry

Development of a flash sintering process, scientific computing codes and AI for computer vision.

University of Burgundy - Diamatec company 📍  
September 2019 - present 📅

### Master's degree in Energy Engineering

General engineering degree with a major in energy  
University of Technology of Belfort-Montbéliard 📍  
2015 - 2019 📅

### French « Grandes Ecoles » exams

French engineering schools exams' preparation  
Henri Parriat High School 📍  
2012 - 2015 📅

### Electrician technical degree

Professional electrician studies  
Eugène Montel High School 📍  
2008 - 2012 📅

## SELECTED PUBLICATIONS

### Deep Learning and Bayesian Hyperparameter...

D. Sicard et al. 👤  
Applied Sciences (2022) 📖  
DOI: 10.3390/app122412606 🔗

## PROJECTS

### OpenForge : Electro-thermal simulation library

Finite element library for electro-thermal process simulation

## WORK EXPERIENCE

### Researcher in an industrial setting

- Induction sintering process development
- Magnetodynamics finite element code
- Wavelet-based signal processing algorithms
- Deep Learning for computer vision

📍 University of Burgundy - Diamatec company  
📅 September 2019 - present

### R&D Engineer

- Led company doctoral grants submission
- Studies of Diamond Grinding Wheels (DGW) manufacturing

📍 Diamatec  
📅 Mars 2019 - September 2019

## SKILLS & LANGUAGES

### Computer

●●○ Python/Matlab      ●●○ Scipy/Scikit-learn  
●●○ Tensorflow      ●○○ C++/Fortran

### Soft skills

●●● Hard working      ●●● Self-taught  
●●● Curious mind      ●●○ Team work

### Languages

●●● French (native)      ●●○ English

## PERSONAL INTERESTS

📖 Open source      🍳 Cookery enthusiast  
🏃 Running      🧳 Avid traveler