



**Damien
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(he/him)

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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 the **industry** my technical, scientific and soft skills. That's why, i am looking for an **Engineering** or **Research and Development** position from **June 2023**.

EDUCATION

Ph.D. in Physics-Chemistry

Development of a flash sintering process, scientific 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

- Development of flash sintering process
- Magnetodynamics finite element code
- Deep Learning (U-Net) for computer vision semantic segmentation applications

📍 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 - Simulink
●●○ Tensorflow ●○○ C++

Other tools

● FreeFEM/FEniCSx ● Code Aster
● Excel (VBA)

Languages

●●● French (native) ●●○ English

PERSONAL INTERESTS

🔖 Open source 🔖 Cookery enthusiast
🔖 Running 🔖 Avid traveler