

Alexis Fouqué

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Application for an engineering internship June-September 2018

Profile

As a second-year student at the *Ecole des Mines*, specializing in the study of functional materials, I am interested in a training period that would allow me to take advantage of my knowledge by conducting experiments on a complex project. In addition to my engineering profile, I am efficient, organized and rigorous, and I have a lot of experience in group projects, teaching and communication. Thus, I hope this internship will enable me to offer my assistance in projects that demand skills and experience in advanced fields of physics.

Education and studies

- *Ecole des Mines de Nancy*, national French school of engineering 2017 - ...
Materials department
Key courses: Statistical physics, quantum mechanics, crystallography, phase diagrams, superconductors
- Two-year undergraduate program prior to the highly selective 2015-2017
entrance examination to prestigious French engineering schools
(Advanced and Applied Maths and Physics) at *Lycée Montesquieu*
in Le Mans, France
- *Baccalauréat Scientifique et Européen* passed with Honours (Très Bien) 2015
French equivalent of Advanced levels in Maths, Physics, Chemistry
and European languages.

Study projects

- Head of second-year group project spent at the *Institut Jean Lamour* on optimizing hydrogen fuel cells. Study of the properties of corrosion resistant coatings during mechanical deformation in cooperation with the CRM Group in Liège, Belgium.
- Assisting second-year project with students from the school of art *ENSAD Nancy* on the exhibition "*Magnetica*" with a view to an future exhibition at the *Palais de la découverte, Paris* in 2019. Building models, interactive interfaces and working on booklets and posters for the event.
- Part of a first-year project with the organization *ARTEM Réussite*, helping secondary school students with their homework and giving them access to scientific culture through presentations and hands-on activities.

Skills developed: summarizing big amounts of data, ensuring quality and clarity of information, handling teamwork with many different skills involved, sticking to deadlines.

Work experience

- **February 2018:** one-month internship at the technical centre of *Renault*, Le Mans. Manual work and machine control on a production line.

Skills developed: rigor, communication, following processes, taking initiatives when needed

- **2018-2019:** Giving private lessons in maths, physics and English to secondary school students as a teacher at *Academia*.

Skills developed: availability, teaching skills, showing the good example and being encouraging

Languages

French: Mother tongue

English: Fluent. Several linguistic trips to the UK, Canada and Australia. IELTS 8 average (/9) awarded by the British Council on June 2018.

Spanish: Very good command of the language. Linguistic trips to Barcelona. Frequent use of Spanish for translating scientific data during projects.

Japanese: Good working knowledge. Intensive work with a view to taking the N5 exam on December 2018.

Interests and activities

Involved in several clubs and societies of the *Ecole des Mines* during first and second year:

- **2017-2019:** Secretary General and human resources manager of the association *Anim'Est*, which is organizing a local event around Japanese culture each year, gathering more than 8000 visitors and artists and requiring more than 250 staff.
- **2017-2018:** Member of a team of 10 students in charge of promoting the event *TEDxMinesNancy* (1000 visitors) through posters, booklets, social network development, local press and media contacts. Mastering specific design software such as Photoshop and Illustrator.
- **2018-2019:** Responsible for all artistic clubs of the school at the *Bureau des Arts*: tackling budget estimations, inventory management and ensuring good communication between the clubs.

Sports: badminton (6 years), tennis (4 years), free-time running and cycling on a weekly basis

Cultural interests: cinema, piano (11 years), composer and arranger, choirmaster for groups of 10 to 20 students

References available upon request