

Name of the hosting institution in France	Université de Limoges
Name of the host laboratory / research team	XLim
Address	123 avenue Albert Thomas 87100 Limoges
Web site	https://xlim.fr
Name of the supervisor	Thomas Fromenteze
Function	Lecturer - Mechanical Engineering Department
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Internship offer

Topic of the internship (title)	Electrical design technician			
Proposed dates of the internship	Start	1/9/2020	End	18/12/2020

* The supervisors have indicated the dates proposed are flexible and are able to be postponed subject to COVID-19 border closures.

Scientific and academic objectives of the internship (detailed description of the internship content, work expected from the intern and expected outcomes):

Naval Group, Europe's leading naval defense company, is one of the few industrialists in the world capable of designing, developing and maintaining systems as sophisticated as a submarine, aircraft carrier or combat ship.

On the site of Angoulême-Ruelle (about 900 people), high-tech equipment is produced that integrates surface buildings and submarines of French and foreign navies.

Under the responsibility of a technical framework, included in the team in charge of Aviation and Aircraft ammunitions Handling System, you will be in charge of the electrical development of a new product (draft version) and realization of a prototype / demonstrator, in order to convince a customer to invest in the whole studies of that new equipment.

Your mission for this internship will be to study and design sets and subsets in the field of electrical equipment:

- Hardware developments (Analog/Digital/Power electronics)
- Production of diagrams and electronic circuit boards, (AutoCAD, SeeElectrical)
- Development of embedded software (Control Expert for SCHNEIDER materials, TIA portal for SIEMENS materials)
- Setting-up draft of systems qualification means
- Setting-up draft of systems tests to ensure the systems quality of our offerings
- Participation in the various steps of a project as part of an AGILE team.

Responsibilities for this internship, under the responsibilities and control of your tutor, include :

- Commitments on the techniques and technologies references used for its study, on compliance with specifications, delay and costs,
- Interfaces with the Aviation Handling System team (designers, technical managers, technologists, industrialization, logistics, production) in order to get all the necessary information for your study,

Missions are not exhaustive and can evolve over time.

Profile

- You justify a school level/studies in electrical and/or software field.
- You know how to use a CAD tool + a Software programming tools (AutoCAD, TOPSOLID and/or CATIA ideally, SeeElectrical, Control Expert, TiaPortal)).
- You are passionate about technology and innovation.
- You appreciate teamwork and interpersonal relationship.
- You want to take part in projects unique by their specificity and their technicality.

Naval Group is convinced that diversity is a wealth for the company and an asset for its performance. That is why we support equality between women and men and promote the integration, access and retention of people with disabilities in employment.

Name of industrial partner	NAVAL GROUP – Angoulême / Ruelle site
Role of the industrial partner in the internship project	NAVAL GROUP in Ruelle-sur-Touvre (16660) will host the student during his/her internship and he/she will be supervised by Naval Group mechanical developer
Main contact at the French industrial partner	Jean-Marc DREVES Cyril PELISSIER

Expected profile of applicant

Level of study	Undergraduate
Discipline	Electronics

Required qualities, knowledge and skills

Good knowledge of electronics, firmware and software development, and mechatronics