# Emilie Estival

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## Objective

*Obtain an engineering final year internship in electronics / embedded systems / software development*

## Education

**INSA TOULOUSE** — Toulouse, FRANCE — 2020
Bachelor Degree in Electronic and Electrical engineering

Relevant coursework: Analog and digital circuits, Service Architecture and IoT middleware, Cloud and autonomous management, Programming, Project Management, Innovation

**NTNU- Norwegian University of Science and Technology** — Trondheim, NORWAY — August 2019 - January 2020
Erasmus semester, study abroad coursework in Engineering Electronics

Relevant coursework: Low-level programming, Design of integrated circuits, Nonlinear control systems, Design of cyber-physical systems

**Emile Duclaux High School** — Aurillac, FRANCE — 2016

Scientific baccalaureat with option in European English (Hons) (equivalent to High School Diploma)

## Experience

**THALES ALENIA SPACE** — Toulouse, FRANCE — July 2020 – September 2020
Trainee
Electronics Development Radiation Testing for New Space Components

Produced a new analog architecture for test bench to characterize electronic components facing space radiation (SEL test)

Skills acquired: mastery of KiCad (electronic schematic, creation of component libraries, PCB routing), teamwork, flexibility, management of a time constraint.

**MECATHEIL** — Aurillac, FRANCE — July 2017 – August 2017
Assembly technician

Assembled specialized industrial machines.
Experienced design office.

## Projects

**DESIGN OF AN ARCHITECTURE FOR FLIGHT SIMULATOR** — Toulouse, FRANCE — September 2020 – January 2021
Project Manager

Designed an IT architecture (hardware & software) of a flight simulator with virtual reality helmet and dynamic seat, for INSA Toulouse.

Skills acquired: communication protocols, ESP32, 3D printing, virtual reality, Unity

**PROJECT INITIATION RESEARCH - DEVELOPMENT OF A LOW-COST GAME ESCAPE ON A.I. WITH ANITI** — Toulouse, FRANCE — September 2019 – June
Project Manager

Created a scientific dissemination tool for the general public, via the development of an "escape game" type game freely distributed at low cost.

Acquired skills: scientific popularization, state of the art, AI techniques.

## Technical skills

**Applications**: good skills in Microsoft Office suite (Powerpoint, Word, Excel, Publisher), Pinacle Studio, PhotoFiltre, Audacity, WIX, Labview, LTSpice, AIMSpice, Matlab, Git, Keil μvision, IntelliJ IDEA
**Programming languages**: C, Python, ADA, Low-level, basis in JAVA
**Operating Systems**: Windows, Linux
**Lab equipment**: DMM, AWF Generator, Oscilloscope, AC and DC Power Supplies


## Personal skills and interests

**Interests**: hiking, climbing, skiing, playing piano, dance, yoga. Perform modern jazz dance at performances open to public.

**Language**: French (mother tongue), English (fluent), Spanish (conversational), basis in Norwegian.