

# Alexandre Cros

## Final IT engineering school internship

### About me, 22 years old

Currently preparing a Master's Degree at the Toulouse National Institute of Applied Sciences (INSA), I am looking for a final IT engineering internship in the exciting field of automotive and motorcycle. I am available for 6 months from February 2021.



### Languages

**French** – Native  
**English** – Intermediate  
**Spanish** – Basic knowledge

### Driving licences

A and B

### Qualities

Autonomous, rigorous, motivated, passionate

### Interests & Activities

IT & High tech, motorcycles, running, mountain bike, automotive, music, aviation, sciences

### Contact



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### Education & Qualifications

- **2018 – Now | National Institute of Applied Sciences (INSA), Toulouse, 31400, France**  
Preparing a Master's degree in IT engineering with a major in Innovative Smart Systems
- **July 2018 | Cisco CCNA Routing & Switch: Introduction to network**
- **2016 – 2018 | International Victor Hugo high school, Colomiers, 31770, France**  
Advanced technical degree in IT & Networks (top of the regional education authority)

### IT projects

- **Oct 2020 – Now | Smart Cabin for STERELA and Airbus**  
Development (with 5 other persons) of a wireless gateway to communicate between a plane and a test machine in order to realize computer-assisted ground tests on A321 assembly lines
- **Oct 2019 – June 2020 | Research Initiation Project – Recommendation systems**  
Redaction (with six other persons) of a state of the art about security issues on recommendation systems • Experiments on Google Maps by trying to emulate malicious traffic jam • Experiments on Sens Critique by trying to modify film rank
- **Nov 2019 – Feb 2020 | Real-time distributed chat system**  
UML system design based on specifications issued by Thalès • Development in Java (with one other person) • Set up SQLite database
- **Oct – Dec 2019 | Sailboat model project**  
Development (with three other persons) of a radio-controlled sailboat from a scale model using a STM32 microcontroller 2019 in C language
- **Jan – March 2019 | Network project – TCP protocol**  
Development in C language of the TCP protocol from the functions of the IP layer
- **Jan – June 2018 | Tutored project of advanced technical degree, project manager**  
Development (with two other persons) of a preventive maintenance and geolocation system for a vehicle fleet for the transport company ALCIS • Use of the Sigfox technology, implementation of a MySQL database and development of Java interface classes • Development of an encoding message program in C++ • Writing of technical documentations to setup the system

### Internships

- **June – Sept 2020 | Internship at INSA, Toulouse, France**  
Development (with one other person) of a new website for the International Relations office of INSA Toulouse • Definition of specifications with the client • Development of an “e-shop” using PHP for exchange students to choose their learnings • Deployment of a WordPress server • Writing of technical documentations to edit and administrate the website
- **May – June 2017 | Internship for advanced technical degree at Suez Eau, Quint-Fonsegrives, France**  
Deployment (with one other person) of a solution for automating and standardizing technicians' mission reports • Creation of a short video in order to present the project at a national Suez conference

### Other experiences

- **2020 – 2021 | Coordination of “Ô Talent” | INSA, Toulouse**  
Participating in the proper evolution of the system whose purpose is to help college and high disabled school students or from a humble background • Management of communication between managers and tutors • Help for the tutors in the smooth running of their session • Organization of events, particularly in terms of logistics and resources
- **2019 | Tutoring “Ô Talent” | INSA, Toulouse**  
Tutoring for college and high disabled school students or from a humble background

### IT skills

- **Proficient in**  
C • Java • HTML & CSS • PHP • V-Model, • SCRUM methods • SQL • databases • Git • Unix • Windows • REST architecture • Cloud
- **Competent with**  
JavaScript • C++ • Multi-threading • Sigfox technology • Python • Ocaml • Matlab • Simulink