

Willy LAO

**French Engineering student
- Data Science, Aerospace -**

Looking for internship opportunities from June 2020

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Driving license

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LANGUAGES

- **French:** Mother tongue
- **English:** Bilingual (C2)
- **Spanish:** Intermediate proficiency (B2)
- **Mandarin:** Intermediate proficiency (HSK4)
- **Italian:** Elementary proficiency (B1)

PROGRAMMATION

- **Python:** Scikit-Learn
- **Tensorflow**
- **Scala**
- **Spark**
- **Matlab**
- **R**
- **Java**
- **C/C++**

EXTRACURRICULAR ACTIVITIES

For a Child's Smile (1 year)

- Coordinated the fund raising of 13600€ for the construction of a school in Cambodia
- 6500 children in four schools now benefit from the educational program

Institute of Mental Health, Singapore (5 months)

- Engaged patients suffering from schizophrenia in re-educational activities

President of the club Supaero Space Section (1 year)

- Designed experimental rockets with CNES, ONERA and ISAE-Supaero
- Managed a team of 70 members (students)

Lead guitar and singer in a band Salsa, bachata and waltz

EDUCATION

Master of Science - Operational Research & Analytics

2019-2020: Paul Sabatier University - Toulouse, France

- Linear programming, Metaheuristic, Stochastic methods
- Combinatorial and Graph Optimization, Artificial Neural Networks
- Supervized and Reinforcement Machine Learning, Decision Trees

Master of Science - Aerospace Engineering

2016-2020: ISAE-Supaero Engineering school - Toulouse, France

- Major: Data and Decision Sciences
- Statistics, Unsupervised Machine Learning, Constraint Programming
- Project with the firm MOBILIB (1 year) : Big Data to do customer profiling and advise their offer of cars in self-service

Exchange program in Beijing – IT Strategy

Sept. 2018 - Feb. 2019:

Beihang University of Aeronautics and Space - Beijing, China

- Analyzed the world's digital economy by studying IT and marketing strategies of banks and firms

Preparatory school for Engineering Schools

2014-2016: Sainte-Geneviève - Versailles, France

- Intensive undergraduate program in Mathematics, Physics and Chemistry

WORK EXPERIENCE

THALES Singapore - Design and control of a nanosatellite

Feb. 2019 - Aug. 2019: Systems Engineering intern - Singapore

- Designed the software architecture and the communication protocols between the different systems of the nanosatellite
- Assisted the design of the control laws for the orientation of the nanosatellite

AIRBUS - Analysis of the data sent by satellites in orbit

March 2018 - Aug. 2018: Space Systems intern - Toulouse, France

- Designed algorithms to visualize the health indicators of a satellite
- Analyzed the data of 12 orbiting satellites to monitor their proper functioning

AEROSPACE VALLEY - Automated update of the CRM

July 2017 - Aug. 2017: Data Science intern - Toulouse, France

- Created algorithms to extract data from over 2000 customers' websites
- Updated the CRM