




# LEI MIAO

## Young Graduate in Signal Processing

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 [github](#), [linkedin](#)

### Nationality

Chinese

### Skills

python

Matlab

PyQt5

OpenCV

OpenGL

C/C++

Conception et debug de  
circuits

### Languages

Chinois

Anglais

Français

### Hobbies

1. Swimming
2. Science fiction
3. Foodie, who organized a dumpling party with more than 30 American students in university

## Profile

I am a proactive and ambitious graduate with a solid background in signal processing. My last internship in a French company allowed me to deepen my knowledge in embedded software development. I am currently looking for an opportunity to use my multilingual/multicultural experience and my technical skills in a challenging environment.

## Employment History

### Embedded software development intern, Serma, Paris

March 2020 — September 2020

- Drafted software specifications with the BMS team
- Developed a fast and practical 'Car Monitor' tool, based on Raspberry Pi in python, to display CAN messages from vehicle. Also added function of animated trace.

### R&D intern, Nanjing Hurys Technology Company, Nanjing, China

June 2019 — August 2019

- Applied pulse compression, FFT and DBF on the radar signal to determine accuracy and performance by cutting out the fuzzy function
- Improved accuracy of angular resolution, optimization of the MIMO system on VEHICLE RADAR.

### Aircraft audio processing project, Capgemini, Toulouse

January 2020 — March 2020

- Compared similar parts of two spectrograms of the left and right channels in blackbox by using the image characteristic matching method
- Calculated with precision the phase difference. And evaluated the advantages and disadvantages of different algorithms by a benchmark that our team has created.

## Education

### Inp-ENSEEIH, Toulouse, France

Sep 2018 - Oct 2020: Engineer's degree in signal and image processing

### Nanjing University of Aeronautical and Aerospace, Nanjing, China

Sep, 2014 - Jul, 2018: Bachelor in Electronic Information Engineering

## Extra-curricular activities

### Vice Minister, Outreach Department, at Association AeroSpatiale Franco-Chinoise

December 2018 — Present