

**Siyuan Niu**

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## Education

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- 10/2017-Now Polytech Nice-Sophia
  - Engineering degree in Electronic Engineering, embedded system direction. (Master's equivalent) Nice, France
- 09/2014-06/2018 Xidian University
  - Bachelor degree in Electronic and Information Engineering.  
Xi'an, China

## Internship

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### 06/2018-08/2018 Laboratory EpOC

We integrate and validate the function of Tripple-Speed Ethernet IP core to transmit and receive data through the port RJ45 with 1Gbps. Then we configure another LCD module and connect them together to show the data on the screen of LCD.

## Projects

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### 09/2018-12/2018 Indoor real-time navigation for robot vehicles

Design a real-time navigation systems for robot vehicles. The acquisition device is based on a Lidar controlled by stm32 MCU and Exynos board that can communicate through UART. The acquisition device and the base station communicate using Robot Operating System.

### 01/2018-06/2018 Project on the palm weevil

Design a trap to catch the weevil. We can obtain the environmental data and the number of captured weevils by sensors, then transmit them to users through Bluetooth. The system is implemented on an Arduino Mega based development board.

### 04/2018-02/2018 Memory Game

Realise Memory Game using c++. We use gtkmm library to realise GUI and Mysql to store user's record. To design the game, we use Observer pattern and MVC pattern.

## Competences

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Hardware: STM32, Arduino, FPGA

Programming: C++, C, Matlab, Java

Electronics: VHDL, SystemVerilog, SystemC

Tools: keil, Arduino, Modelsim, Quartus, VS2017, Qt Creator, Precision\_Synthesis RTL, Xilinx Vivado

Languages: Chinese(mother language); English: TOEIC (835/990); French: TCF B2

## **Honor**

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09/2017-09/2018 Chinese Government Scholarship

## **Hobbies**

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Music, Electric guitar, Reading books, ski