

# Lingyuan Yang

+46 727405529 • linyan@kth.se  
linkedin.com/in/lingyuanyang

## Notable Experience and Projects



### Software engineering internship

Sweden

*RBS synchronization software group, Ericsson*

*Jun 2018 - Aug 2018*

- Software porting from 32-bit to 64-bit platform
  - Test existing codes and propose solution for potential risks of cross-platform porting.
  - Improves team efficiency with shell scripts which help to conduct work flow automatically.
- System documentation reimplementation
  - Restructure the documentation with Markdown and PlantUML



### Embedded software developer(part time)

Sweden

*Hardware development group, MindfulHU(Start-up)*

*Feb 2018 - Aug 2018*

- Develop embedded software and firmware for prototypes
  - Build up the software solution from ground with Arduino
  - Design the circuit with seprate component and solder the circuit board for the prototypes.



### National Undergraduate Electronics Design Contest

China

*Second prize. Top 7.5% in the contest of 2015*

*Aug 2015*

- The entries are Equal precision frequency meter.
  - Achieved a relative precision of 0.01% throughout the range of 1Hz-100MHz.
  - Realized real time data update, increase precision of data display and minimize dithering.
- Responsibility
  - Develop firmware to drive the circuit and peripherals
  - Develop software algorithm for digital signal processing and precision improvment.

## Education



### KTH Royal Institute of Technology

Sweden

*Master of science - ICT Innovation, Embedded Systems.*

*2017-on going*

- Main courses:  
Embedded Software | Compilers&Execution Environments | Computer System Architecture.



### Harbin Institute of Technology

China

*Bachelor of Engineering - Electromagnetic field and wireless technology.*

*2013-2017*

- Main courses:  
Microcontroller Theory | Digital Signal Processing | Microwave Technique

## Skills

- **Programming:** C/C++, MATLAB, Linux shell, Git.
- **Documentation:** L<sup>A</sup>T<sub>E</sub>X, Markdown, PlantUML, MS office
- **MCU and OS:** STM32F10x, STM32F40x, Arduino, Altera Nios II,  $\mu$ C/OS-II
- **Language:** English(Professional working proficiency), Chinese(Native)