

Lingyuan Yang

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M.S. in Embedded Systems at KTH. Looking for a summer internship about Embedded software development from 15th July to 1st Oct.

Education

- **KTH Royal Institute of Technology** **Sweden**
 - *Master of science - ICT Innovation, Embedded Systems., in progress* 2017-on going
Main courses: Embedded Systems | Embedded Software | Computer System Architecture.
- **Harbin Institute of Technology** **China**
 - *Bachelor of Engineering - Electromagnetic field and wireless technology.* 2013–2017
Main courses: Microcontroller Theory and Interface Technology | Digital Signal Processing | Microwave Technique | Radio wave and antenna

Notable Experience and Projects

- **Contest project:** *Equal Precision Digital Frequency Meter based on FPGA and STM32*
 - Won the Second Prize in the 2015 National Undergraduate Electronics Design Contest of China. (**Top 7.5%**)
 - Achieved a relative measurement precision of 0.01% throughout the range of 1Hz-100MHz with equal precision measurement technology. Realized real time data update, increase precision of data display and minimize dithering
 - Responsible for project plan and software, specifically including programming drive and algorithms for processing, display and control of data on STM32.
- **Bachelor thesis :** *Electric Short Dipole Radiation Field Computing Algorithm*
 - Used Finite-Difference Time-Domain method and applied Uniaxial Perfectly Matched Layer technology to form absorbing boundary condition.
 - The algorithm is for computing the distribution of radiation field of electric short dipole.
- **Part time programmer:** *Developing embedded software for MindfulHU*
 - Currently act as a part time embedded software/firmware developer at MindfulHU, a start up at the incubator of KTH Innovation.
 - Developing first prototype of its product with Arduino and peripheral sensors. Using version control tool for cooperation coding with my colleague.

Technical and Personal skills

- **Programming Languages:** Proficient: C/C++, MATLAB. Familiar: Assembly, \LaTeX .
- **Industry Software Skills:** Git(Advanced), MATLAB (Advanced), KEIL MDK-ARM (Advanced), Ti CCS (Intermediate), μ C/OS-II(Intermediate).
- **Familiar Platform:** Altera Nios II, STM32F10x, STM32F40x, Arduino
- **Language Skill:** English(Professional working proficiency), Chinese(Native)