

# GUO Pengfei

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## EDUCATION

**Undergraduate. Measurement & Control Technology and Instruments. Chongqing University, Chongqing, China**

*Sep 2016 - Graduation Date*

- **GPA:** 3.88/4, ranked 1/106 among all students in Measurement & Control Technology and Instruments
- **Language:** CET-4(594) , CET-6(563)
- **University & Government Awards:** National Scholarship(twice); Advanced Individual of Innovation Ability Promotion of Regular IHEs of Chongqing; The Tang Lixin Scholarship of Chongqing University; The First Scholarship of Chongqing University (five times)
- **Partial Coursework:** [Advanced Mathematics 1] [90]; [Advanced Mathematics 2] [89]; [Probability and Statistics] [99]; [Linear Algebra] [92]; [University Physics 1] [89]; [University Physics 2] [91]; [Error Theory and Data Processing] [93]
- **Skills:** C (Familiar), MATLAB (Familiar), Python(Basic), Altium Designer (Familiar), MS Office (Familiar)
- **IDE :** IAR、MATLAB、KEIL、CCS、VS
- **Certifications:** NCRE -2, NCRE -3(Embedded System Development Technology)
- **Position:** vice president of Optoelectronics Information Association (2017-2018)

## COMPETITION AWARDS

- The 2nd Prize of the 14th NXP CUP National University Students Intelligence Car Race(Beacon Group, 2019) *Aug 2019*
- The 2nd Prize of Renesas CUP 2018 National Undergraduate Electronics Design Contest- Advanced Information Technology Invitational Contest (NUEDC AITIC) *Aug 2018*
- The 1st Prize of the National Academic English Vocabulary Contest *May 2018*
- Meritorious Winner of the 2018 Mathematical&Interdisciplinary Contest in Modeling *Apr 2018*

## PROJECT EXPERIENCE & MY WORK

**National University Students Intelligence Car Race**

*Oct 2018 - Aug 2019*

*College Of Optoelectronics Engineering, Chongqing University*

*Chongqing, China*

- Designed project architecture based on K60 and RT1052; participated in implementing algorithm of the motion control; implemented beacons and obstacles recognition algorithm based on gray and RGB images, involving image segmentation and adaptive threshold, search strategy optimization, denoising, median filtering; designed UI.

**High-Precision Two-Dimensional Mechanical Slide**

*Jun 2019 - Jul 2019*

*College Of Optoelectronics Engineering, Chongqing University*

*Chongqing, China*

- Accuracy allocation of slide; dynamical calculation, selection and verification of motor, screw and guide; drew sectional view; wrote specification of design and calculation.

**Low Noise DC-DC Regulated Power Supply**

*Jan 2019 - Jan 2019*

*College Of Optoelectronics Engineering, Chongqing University*

*Chongqing, China*

- Participated in scheme design and chip selection; simulated by LTspice; wrote partial specification of design and calculation.

**Self-powered Water Meter Reading System Based on Networking Techniques**

*May 2018 - Aug 2018*

*College Of Optoelectronics Engineering, Chongqing University*

*Chongqing, China*

- Programmed an embedded system of gateway based on SK-S7G2; designed UI; error correction of flow sensor by interpolation; designed and welded the PCB of water meter, including control and power generation circuit; participated in programming of host computer, including visualization and SMS alerts via Tencent Cloud; participated in testing.