Wang Li

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EDUCATION

Beijing Jiaotong University *Sep 2014 - Jul 2018*

Bachelor Measurement and Control Technology and Instrumentation *Beijing*

- GPA: 92.6 / 100
- Honors/Awards: National Scholarship, First Class Scholarship, Excel Graduate Student Award, National College Student Mathematics Competition: Third prize

Beihang University *Sep 2017 - Mar 2020*

Master Control Science and Engineering *Beijing*

- GPA: 86.1 / 100
- Honors/Awards: Freshmen Scholarship, First Class Scholarship

RESEARCH EXPERIENCE

Cable-Driven Upper-Extremity Exoskeleton Rehabilitation Robot(NSFC) *Jun 2018 - Present*

- Analyzed kinematic and dynamic model of 4-DOF cable-driven exoskeleton, simulated by MATLAB, Anybody, V-REP.
- Designed a PD feedback combined with inverse dynamic feedforward control algorithm applied in trajectory control.
- Used C++ to implement the algorithm, tested on prototype.

China University Robot Competition(ROBOCON) *Jun 2016 - Jun 2017*

- Worked as one of group leaders, formulated control scheme.
- Designed, soldered and tested ARM hardware circuit board.
- Used STM32 as main controller and designed control program.

Freescale Cup Intelligent Car Competition *Mar 2016 - Jul 2016*

- Designed electromagnetic signal detect and bluetooth communication circuit.
- Assisted with writing control program implemented on SX128 micro controller.

INTERNSHIP

Beijing Sinodynettest Science Technology *Jul 2016 - Aug 2016*

- Worked with other team members to design integrated circuit test program.
- Evaluated specific technical specifications of analog and digital integrated circuits.

SOCIAL EXPERIENCE

Volunteer activities of IAAF World Championships *Aug 2015 - Aug 2015*

- Responsible for guiding athletes and journalists.
- Accumulated over eighty hours in volunteer.

Paper

- "Motion Control of a 4-DOF Cable-Driven Upper Limb Exoskeleton", *14th IEEE Conference on Industrial Electronics and Applications(ICIEA 2019)*
- *"Design and analysis of a large-range precision micromanipulator", Smart Materials and Structures*