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| RESUME | | | | |
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| **Name** | Xin Cheng | **Degree** | Master |  |
| **College** | Huazhong University of Science and Technology | **Major** | AI and Automation |
| **Phone** | 159 2768 1243 | **Mail** | chengxin@hust.edu.cn |
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| Education |  | | | |
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| |  |  |  | | --- | --- | --- | | 2014.09--2018.06 | HUST (B.S) | School of Automation | | 2018.09--now | HUST (M.S) | School of AI and Automation |   **Research：**   |  |  |  | | --- | --- | --- | | FPGA network optimization | FPGA high-performance network | Intelligent hardware and sensor | | | | | |
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| Projects |  | | | |
| Courses Design C language、Embedded System、FPGA、Labview  Internship Schneider Electric intern、MSRA FPGA intern  Exchanges Hong Kong University of Science and Technology, National University of Singapore  Competition Siemens Cup process control development  Research A paper in Sensors and Actuators: A physical、A paper in IEEE sensors letters   |  |  | | --- | --- | |  | | | Experience |  |   2017.7-2017.8 Challenge of Siemens Cup China Process Control Development   * Continuous process control, using PLC to implement continuous and stable operation of the chemical production process * 1st prize in China central region   2018.3-2019.6 Oblique fiber fuel level sensor   * Optical fiber sensors designed for fuel level measurement in aircraft tanks to achieve high-precision measurements under conditions of strong mechanical electromagnetic interference * New fiber optic sensor structure, measurement system design, hardware circuit design, embedded development   2019.3-2019.8 Internship in MSRA   * Participate in the design and implementation of Project Terminus, a new FPGA parallel network of the Network Research Group * Optimize the performance of FPGA network data transmission, data streams pipeline, improve the maximum frequency * Use FPGA to decode and scale JPEG images   2018.12-2019.10 Experiments and Published papers   * Publish paper “Oblique end face coupling optical fiber sensor for point fuel level measurement” in Sensors and Actuators: A Physical * Publish paper “ Reflected light intensity-modulated continuous liquid level sensor based on oblique end face coupling optical fibers” in IEEE Sensors Journal | | | | |
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| Rewards |  | | | |
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| * NCRE computer network technology NCRE network engineer * 2019 National Scholarship（¥20000） 2018、2019 National Encouragement scholarship | | | | |
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| Introduce |  | | | |
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| * Positive and optimistic, strong cooperation and communication skills, experienced internships, high project participation * familiar with parallel computing, FPGA parallel network transmission, FPGA heterogeneous computing * Solid hardware basics with strong capabilities of circuit design and development | | | | |