XIA Kewei

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Education	**Electrical and Computer Engineering (ECE), Duke University**	Durham, United States
	Candidate for Master of Science degree in Computer Engineering	Aug. 2019 – present
	Electronic Information School (EIS), Wuhan University	Wuhan, China
	Candidate for Bachelor of Science degree in Electronic Engineering	Sep. 2015 – Jun.2019

Cumulative GPA: 3.897/4.0   In-major GPA: 3.946/4.00   Ranking: 2/95   TOEFL 107

C programming	96/100	C++ programming	98/100	Analog Circuit	95/100
Computer Network	94/100	Signal Processing II	99/100	Data Structure and Algorithm	94/100

Experience

Research on Soil Water Movement Based on Sensor Network   Wuhan, China
Team Leader   Oct. 2016 - Mar. 2018
- Realized the 3D measurement of soil water movement
- Implemented data visualization on self-designed Android App

Carnegie Mellon University Summer Research   Pittsburgh, Pennsylvania, USA
Research Assistant   Jul. 2018 - Oct. 2018
- Developed a user-oriented messaging assistant to improve efficiency of message-related task
- Optimized algorithms with Python on server end and researched for further improvement

Low-frequency Electronic Circuit (47 students 72 hours)   Wuhan, China
Teaching Assistant   Oct. 2018 - present
- Corrected homework and examined laboratory for 47 students in Excellent Engineer Class'17 weekly
- Presented exercises class weekly

Foshan Chengmeng Electronics Co. Ltd.   Foshan, China
Research Trainee   Jul. 2017 – Oct. 2017
- Developed an order management system on Android with Java
- Implemented data storage, analysis(server), synchronization and visualization(client)

Publications

Conference

[1] Fanglin C, **Kewei X**, Karan D, Jason I. H, **MessageOnTap: A Suggestive Interface to Facilitate Message-Related Tasks**, *CHI 2019 Conference*, Dec. 2018

Journal

[1] JIN Weizheng, **XIA Kewei**, GAO Yining, etc. (5 in total), **The Design and Implementation of an AM/FM VHF Receiver**. Journal of Electrical & Electronic Education, already adopted, Vol.40 No,6 Dec. 2018.

[2] JIN Weizheng, **XIA Kewei**, LI Hao, etc. (5 in total), **FPGA innovation experiment system based on wireless game**. Journal of Electrical & Electronic Education, already adopted, Vol.41 No,2 Apr. 2019.

Patent

[1] DENG Hui, GAO Yining, **XIA Kewei**, JIN Weizheng. "A VHF Receiver based on double PLL".
Patent No. ZL201721452675.5 May. 2018

[2] LIU Siqi, **XIA Kewei**, LI Hao, "A portable wireless game device based on FPGA"
Patent No. ZL201820360604.0 Oct. 2018

[3] GAO Yining, DENG Hui, **XIA Kewei**, "An intelligent system for monitoring fatigue driving based on ocular electrical signals".
Patent No. ZL201721583495.0 Apr. 2019

Achievement

Awards

- **Second Prize** of *National Undergraduate Innovative FPGA design Invitational* (Top 30%)	2017
- "Tri-A Student" Wuhan University (Top 10%)	2016
- "Tri-A Student" Wuhan University (Top 10%)	2017
- Second Class Scholarship of Wuhan University (Top 15%)	2016
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