Qinran HU

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Education

Ph.D. Candidate @Dept. of EECS, Univ. of Tennessee, Knoxville **Aug. 2010 - Present**

Working on Controllable Load Under Market Operation, Integration of Renewable Energy, Power Market Operation and Power System Planning and Control

- **GPA: 4.0**

B.S. @Chien-Shiung Wu College, Southeast University **Aug. 2006 – Jun. 2010**

Expertise in Electrical Engineering and Automation, Honor Class for Electrical Engineering in Chien-Shiung Wu College **(Top 89 selected from 2000 students majoring engineering)**, Southeast University, Nanjing, China.

- **GPA: Major: 92/100 Over all: 87.5/100 Rank: 4th/89**

Research

Payment Cost Minimization Considering Wind Power Effects **April 2011 - Present**

- Addressing payment cost minimization (PCM) issue with the consideration of wind energy
- Comparing PCM results with bid cost minimization (BCM)

Modeling of ERCOT 4 Bus System **Sept. 2011 - Dec. 2011**

- Find proper load, generation and network parameters
- Build the system in PSSE and PSCAD
- Test the system in static state and dynamic state

Constructive Algorithm for Online Distribution System Restoration **Sept. 2010 - Dec. 2011**

- Propose effective back-feed restoration algorithm
- Test algorithm in IEEE standard testing system

The design of the platform for wheeled educational robot **Sept. 2007 - Jun. 2010**

- It is National College Student Innovative Project
- As Team-leader with three team members

Publications/Patent

- **[Patent by Qinran Hu]** A national invention patent of "Healthy and Energy-saving Water Heater"
- Sarina Adhikari, Fangxing Li, **Qinran Hu**, Zhenyuan Wang, "Constructive Back-Feed Algorithm for Online Power Restoration in Distribution Systems," *The 16th International Conference on Intelligent System Applications to Power Systems*
- Yuchen Guo, Yi Qian, **Qinran Hu**, Qiong You, Suyu Gu, and Minwei Chen. "Gains from Zero -- Story of a Freshman who Stood onto the Platform of International Forum," *Physics and Engineering*, Vol.18, No.4, May 2008.
- Liu Liu, **Qinran Hu**, Zhong Zhuang, and Sheng Zhao, "Instant Remote Transmission", The IOSTE Regional Symposium on Science Education for Sustainable Development, Philippines, July 2007

Awards/Honors/Scholarships

- China Government Scholarship
- Province – level Outstanding Student Leader
- Chancellor Scholarship–Southeast University
- Second Prize Winner –National Undergraduate Electronic Design Contest
- First Prize Winner – Jiangsu Province CPLD Electric Circuit Design Competition
- Second Prize Winner – National College Student Competition for Mathematical Modeling
- First Prize Winner – 10th Electric Design Competition, Southeast University
- Second Prize Winner – Digital System Design Competition of Chien-Shiung Wu College, Southeast University
- Hua Longxing & Ma lihua Scholarship, Southeast University
- Southeast University Outstanding Student Leader Award

Experience

2011 IEEE PES General Meeting **Summer 2011**

- Present the poster "Heuristic approach for Online Distribution System Restoration" in student poster session

Research Assistant **Sept. 2007 - Jun. 2010**

- Work as Research Assistant in the Group of Profs. Jianfeng Zhao and Zaijun Wu, Department of Electrical Engineering, Southeast University Focusing on the smart grid, microgrid, and technologies of power electronics.

Microsoft Little Scholars in Microsoft Research Asia **Summer 2009**

- Invited by Microsoft Research Asia to the Summer Camp. of Microsoft Little Scholars **(Only 50 outstanding college students are selected per year)**. Discussed with experts in MRSA about current research areas and shared relevant knowledge/research experiences with other student representatives. Invited by MRSA to do internship as graduate student for two years after the camp.

Summer intern in Nanjing Automation Research Institute (NARI) **Summer 2008**

- NARI is a key comprehensive scientific research institute affiliated to the State Grid Corporation of China. Observed and involved in the research and development of the power system relay protection process.

9th China Synergy Program for Outstanding Youth **Summer 2007**

- Participating in 9th China Synergy Program for Outstanding Youth **(Only 40 outstanding candidates selected from thousands per year)**.

International Physics Education Conference **Summer 2007**

- Invited to attend the International Physics Education Conference held in Philippine and present the paper of "Instant remote transmission" by oral.

Computer Application Skills

- Program Languages: Skilled in Java, VHDL, Assembly Language and Python
- Professional Software: Skilled in Matlab, PSSE, Multisim, Quarters, Protel, Eclipse, and Mathmatica