

SYSTEMS DESIGN APPLICANT

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EDUCATION

Duke University, Department of Electrical and Computer Engineering, Durham, NC
M.S. candidate in Electrical and Computer Engineering (degree expected May 2006)
Relevant Courses: Electromagnetic Fields, Continuous/Discrete-Time System and Signal Analysis,
Microelectronic Circuits, Oscillations and Waves, Bioinstrumentation and Biosensors

Tsinghua University, Beijing, China
B.S.E. Electrical Engineering, 2002

HONORS AND AWARDS: Tsinghua University Scholarships (3 years)

COMPUTER SKILLS

Operating systems: Windows 95/98/2000/NT/XP Professional, Unix, Linux
Programming languages: C/C++, VC, VB, Matlab
Software: MS Office, EDA circuit design software series, etc.

SYSTEMS RESEARCH EXPERIENCE

Duke University, Department of Electrical and Computer Engineering, Durham, NC
Research Assistant, 2003--present

Perform research in the field of electromagnetics and its application to biomedical Imaging and new medical applications, such as electromagnetically induced hyperthermia, bone healing, and nuclear magnetic resonance (NMR) imaging. in the laboratory of Professor _____.

Tsinghua University, Department of Electrical Engineering,
Research Assistantships 1999-2002

- Circuit and System Laboratory
Independently developed a simulation software package of impulse transient in the windings of a power transformer. Worked on the investigation of RF and its use in MRI systems.
- Power Electronics and Machine Control Laboratory
Research focused on the integration of information technology and power. Investigated the "Electronic Machine System" by simulating the start process and the unload & load process. Investigated the channel characteristics of distribution power lines. Participated in the "automatic meter reading system" project and designed the client terminal for it.
- SMES System Design Group
Worked out a "harmonics-free IGBT bridge" topology using power electronics technology on which the simulation was taken out and the results were perfect.

APPLIED RESEARCH AND MANAGEMENT EXPERIENCE

Micronanotechnology Inc, Beijing,, China
Executive Assistant, 2002 --Recruited staff to assist the general manager in charge of the HR section and market extension. Made an important contribution to the early stage development of this start-up company.

Measuring and Cutting Tool Works, Shanghai, China
Intern, Summer 2002 --Designed the intelligent module in digital caliper and wrote the RS-232C interface program to transmit outputs to computers. Designed the analog and digital circuits, Performed circuit simulation and operation testing. Designed electronic virtual test equipment using Labview.

The 36th Institute of National Electronic Industry Department, Shanghai, China
Intern, 2002 --Assisted with the design of a communication network and radar system for military use.

UNIVERSITY LEADERSHIP ACTIVITIES

Duke University Graduate and Professional Student Council (GPSC), Representative, 2003-04
Tsinghua University Student Government, Vice President, 1999-1002