

# Yuhui Huang

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## Summary

Computer Science and Electronic Engineering major with strong hands-on experience in programming, software development process, computer system management, and communication skills. More than 10 years of C programming and extensive operating experience under various operating systems.

## Technical Profile

### Programming Languages:

C++ (Visual C++, GCC), C, Java, Perl, Pascal (Delphi), Shell Scripts, Visual Basic, x86 Assembly, Fortran, Matlab, Maple, SQL, Lisp, Prolog, Haskell, VHDL (in descending order of proficiency).

### Project Management:

Visual Sourcesafe, CVS/RCS, Autoconf/Automake, Doxygen, Coding Standard.

### Misc Development Skills:

MFC, DAO, ActiveX, COM, STL, CORBA, ACE/TAO, IPC, wxWindows, GTK, Swing, Perl/TK, TCPIP/Socket, WebDAV, Apache, MySQL, GDB, Soft-ICE.

### Operating Systems:

Windows 2000/NT, DOS, Linux, Solaris, FreeBSD.

### Other Skills:

Microsoft Office, L<sup>A</sup>T<sub>E</sub>X, Web Publishing, System Troubleshooting, InstallShield.

## Experience

### Dept. of Computer Science, UC Santa Cruz

Santa Cruz, CA

RESEARCH ASSISTANT

Sept, 2001-Sept, 2002

Modified Apache module for proof-of-concept implementation of using WebDAV interface in Electronic Records Management systems.

Implemented prototype of New Pagoda broadcasting protocol for VoD (Video-on-Demand), broadcasting single video using multiple UDP multicast groups to minimize client wait time.

### Dept. of Electronic Engineering, Tsinghua Univ.

Beijing, China

RESEARCH ASSISTANT

Nov, 1996-July, 2000

Developed control software for color-CRT testing system, which can **reconstruct beam-energy distribution** profiles of CRTs with shadow masks, **analyze the profile, manage testing data and generate reports**. The hardware system includes computer controlled signal generator and CCD camera. As a contracted project, the system was put into **practical use** in IRICO Display Devices Company and greatly helped their testing of new electron gun design.

Designed control **software for testing the aging characteristics** of organic electro-luminance (EL) devices. The system was built for the Department of Chemical Engineering, Tsinghua University to help their development of organic EL display devices.

Developed software for 1' mini-CRT **image quality evaluation system**.

### China Academy of Railway Sciences

Beijing, China

PART-TIME SOFTWARE ENGINEER

Dec, 1997-Mar, 1998

Designed data display **user interface**, as part of the **Iranian City Railway Control System**.

### China Academy of Railway Sciences

Beijing, China

INTERN/PART-TIME SOFTWARE ENGINEER

July, 1997-Dec, 1997

**Led development group** of 10 interns. Coordinated **development of CAD software** for specific relay circuit design and simulation (as their in-house design tool). Introduced coding standard and version control system to coordinate the development. Internship led to **contracted** part-time job later.

## Education

### University of California, Santa Cruz

Santa Cruz, CA

MS in Computer Science

Sept, 2000-Aug, 2002

### Tsinghua University

Beijing, China

MS in Electronic Engineering

Sept, 1998-July, 2000

BS in Electronic Engineering

Sept, 1993-June, 1998

## Affiliations & Certifications

- Member of USENIX and System Administrator's Guilds (SAGE)
- Microsoft Certified Product Specialist (MCPS)
- IBM Certified Specialist (ICS): AS/400 Operator