

William Foote

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SUMMARY OF QUALIFICATIONS

- Key driver in the creation of an industry-changing technology family for televisual interactivity, including Blu-ray Disc Java
- Android Framework and Application Development
- Creator of technologies that bridge between graphics design, interactivity design, authoring and programming
- Expert in resource-constrained device programming (mobile, tablet, and television) and multithreading
- Extensive experience with international standards bodies and other international work, especially in Europe and Asia
- Partnering with business and artistic professionals
- Primary inventor for approximately seventeen technology patents
- Software Design
- Accomplished writer
- Final round judge and committee member for **2005 Emmy** in iTV

PROFESSIONAL EXPERIENCE

Software Engineer, Google, 9/10 – present

- Developed Android applications and framework code, including a pixmap native memory management and caching framework.
- Primary inventor on two approved patent disclosures.
- Some server-side Java development, exposure to iOS

Systems Architect, Walt Disney Studios, 7/09 – 6/10

- Created disc authoring framework to significantly reduce the costs of deploying BD-Live applications across a large number of discs simultaneously
- Prototyped 8x launch time improvement in Disney BD-live portal
- Development of technology and process infrastructure allowing the rapid, timely and reliable introduction of maintainable BD-Live enhancements
- Wrote 3D Java test disc for the Blu-ray Disc Association's 3D benchmark

Senior Staff Engineer, Sun Microsystems, California, 12/96 – 7/09

- Co-authored the book “**Programming HD DVD and Blu-ray disc**,” published by McGraw-Hill. Wrote chapter for NHK’s book “Interactive Content for Broadcast Communications” (放送・通信のインタラクティブコンテンツ).
- Created **hdcookbook.dev.java.net** open source BD-J authoring framework. This code has been used in numerous commercial Blu-ray discs both for the main disc menu and for add-ons, such as games.
- Wrote key portions of **Blu-ray Disc**, Java TV and DVB-MHP technical specifications. Lead technical representative to the Blu-ray Disc Association.
- Evangelized platform to developers through presentations, training and open-source tool chain.
- Chairman of DVB’s “MHP Umbrella Group.” This group created the “Globally Executable MHP” (**GEM**) specification which defines the technical terms of MHP adoption in other markets (e.g. the US and Japan).
- Represented Sun in numerous international bodies:
 - Blu-Ray Disc Association
 - DVB, a Geneva-based television standards organization
 - The UN’s subcommittee on interactive TV (ITU JRG-1)
 - The US Cable TV industry consortium, CableLabs
 - The American Televisions Standards Committee (ATSC)
 - Japan’s ARIB (Association of Radio Industries and Businesses)
 - China’s DTVIA (Digital Television Industry Association)
- Chairman of DVB App Lifecycle, Signalling and Security group.
- Developed applications for the **American Film Institute’s** eTV workshop in 2002 and 2004.
- Developed and patented new technology for analysis of heap memory usage and topology (including the “**HAT**” tool, available at <http://hat.dev.java.net/>).
- Developed and patented techniques for terminating hostile applications.
- Developed and patented techniques for resource negotiation between multiple applications and the platform.
- Frequent public speaker (e.g. at JavaOne conference).

Software Engineer, Credence Systems Corp, California, 12/95 – 12/96

- Created internal training class on OO design and programming
- Designed and built software to control semiconductor automated test equipment

Software Engineer, Medicus Systems, California, 6/93 – 12/95

- Designed and built software for the medical industry

Software Engineer, Celtis Technologies, Vélizy, France, 8/91 – 7/92

- Consultant to France Telecom
- Built UI for system used by Électricité de France to design nuclear power plants

Consulting and other employment, 1980 - 1991

- Created customer service and fulfillment system using Informix RDBMS
- Designed and built real-time control program for industrial robot
- Created radio station control and logging software

EDUCATION

Master of Science, Computer Science, UC Berkeley, 1988-1989,
GPA 3.9/4.0

Bachelor of Science, Computer Science, UCLA, 1982-1987
Junior year at University of London, Westfield College
Honors: Phi Beta Kappa, *Summa cum laude*, GPA 3.9/4.0.

OTHER SKILLS / ACTIVITIES

Speak French fluently

Volunteer in 2004 and 2008 presidential campaign, including week-long canvassing trips to Texas and Nevada for the 2008 primary

Appeared on CNN's "Situation Room" with Wolf Blitzer in connection with "Video the Vote" voter protection effort

Occasional video hobbyist and Final Cut wrangler

Taught English in Mideast refugee camps in 2003, and helped to found Canadian NGO that continues this work

Recreational Ice Hockey. Go Honey Badgers!