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650-857-7510(Work)

408-733-5966(Home)

**Nic Lyons**

**nic.lyons@hp.com, ctcion@yahoo.com**

**Software  
Development  
Experience**

Experienced in delivering innovative business solutions involving emerging technologies. Experienced in investigation, architecture/design, prototyping, and application development of Internet services and distributed applications, mobile/wireless solutions for PDAs and cell phones, and rich media applications for consumers. Multi-platform development on both Unix and Microsoft operating systems.

**Employment**

***Hewlett Packard***

***1979-Present***

**Software Developer, Hewlett Packard Labs, 1990-Present**

**HP Labs Mobile & Media Systems Lab / Internet and Computing Research Center. 2000-Present**

Member of the HP Labs [Cooltown project](#), supporting a vision of mobile lifestyle where people, places and things are connected by mobile devices, everything has a Web presence, and web-based services merge with smart appliances in an open and personalized environment. Developed applications for PDAs, desktops and cell phones including web-enabled rich media players. Developed an RFID mapping service which launches remote web services from RFID tag swipes. Developed a context dependent infrared beacon mapping service, for Windows CE, which launches remote web services. Developed Symbian applications for cell phones supporting location-based web services for family communications. Languages used: C++, Symbian, Windows CE, MFC, HTML, XML.

**HP Labs Publishing Systems and Solutions, 1996-2000**

Member of the WebPaper project whose goal was to enhance scanned paper documents with functionality equivalent to an HTML document. Designed and developed Java and C++ versions of a scanned paper document browser, document creation software and the server infrastructure and prototypes. Liasioned with UC Berkeley Digital Library researchers on Multivalent Document technology. Successfully transferred the browser and document creation software to HP Personal LaserJet Division to be sold as an HP product in late 2000. Languages used: Java, C++, HTML, C, Perl, UML.

**HP Labs Research Computing Services, 1990-1996**

Designed, developed, and deployed software and hardware solutions in support of the computing infrastructure in HP Labs. Early promoter and adopter of World Wide Web technologies. Architect of HP Labs' internal and external web site infrastructure (in 1993 when web infrastructure was immature). including server backend, proxy gateways, and client software. Sole chairperson of the first internal HP wide web conference held at HP Labs in May 1994.

Architected and developed a unified PC and Unix workstation client-server backup service using cryptographic techniques to backup a minimum file set for all clients. Evaluated and deployed the HP Omniback software for workstation backups including an installer, an email registration scheme as well as acting as the technical backup when we later transferred the backup service to a Corporate IT group. Languages used: C, HTML, Perl.

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### **HP Corporate Engineering Human Factors, 1986-1990**

Member of HP Corporate Human Factors group designing and developing software applications targeted towards evaluation of HP hardware and software product usability. Specific projects included measuring icon usability, using electromyogram (EMG) technology for evaluating input device usability, generating the best grayscale font for particular displays and measuring display image quality. Project lead for a cross divisional team evaluating the feasibility of adopting a Virtual Reality user interface technology (VPL's VR software from SGI to HP's graphic accelerators). Languages used: C, Starbase 3D graphics library, Perl.

### **HP Stanford Park Microwave Division, 1979-1986**

Member of technical staff in microwave instrument division. Developed firmware, digital system hardware and calibration software for a microwave synthesizer along with application software and operating system for a transceiver test system. Languages used: C, Basic

### **Patents**

US Patent 6094665, "Method and Apparatus for Correcting a Uniform Resource Identifier", Nic Lyons and Carl Staelin, filed 9/18/97, granted 7/25/00

Utility patent pending "Web Presence For Physical Entities ", filed 7/10/2002

Utility patent pending "Enhancing Display Functions", filed 1/23/2003

Patent disclosure "Low Cost Interchangeable User Interface Module For Location-Based Computing ", filed 3/24/2003

Patent disclosure "Enhancing The Rendering Of Web Pages By Using The Environment Of The User", filed 3/24/2003

### **Education**

#### **University of Illinois, 1972-1979**

B.S. and M.S. Electrical Engineering, specialized in Display Technology and Digital Design.

#### **Continuing Education:**

Symbian C++ Developer's class, November 2003.

Designed and deployed computing infrastructure with XP clients, **Windows Server 2003**, **Active Directory**, and roaming user profiles. Bowman International School, Summer 2003 to present.

FCC Amateur Radio License, KG6BKH, May 2000.

### **Publications**

N. Lyons, D. Bitzer, P. Tucker, "Improving the Memory Margin in Plasma Display Panels," Digest of Society of Information Display Conference, April 1980.

N. Lyons, J. Farrell, "Linear Systems Analysis of CRT Displays," Digest of Society of Information Display Conference, May 1989.