Bruce J. Bell

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Programming Skills

- **expertise:** algorithms, system design, quantitative programming, computer graphics, data/image compression, binary data formats
- **languages:** C/C++, Perl, Haskell, assembly, graphics shader languages, Java, Basic, Fortran, Pascal, Postscript, shell scripts
- **markup/presentation:** HTML, XML, CSS, PDF

Programming Experience

- Blue Shift, Inc. Nov '07 – Feb '09
  Implemented full-screen effects for console video games (Midway's Ballers and Blitz – The League 2)
- NVIDIA Jan '06 – Sep '06
  Provided testing support for compiler group
- Telemetry Broadcast Corp. Aug '98 – Dec '99
  Wrote telemetry software for Shuttle Radar Topography Mission (SRTM – STS99)
- Caltech — Hum/SS dept. Dec '94 – Sep '96
  Wrote interactive client-server system for experimental economics; implemented matrix and linear programming algorithms
- Caltech Hum/SS dept. '87 – '88
  Wrote interactive game tree editor
- Caltech summers, '86 and '87
  Programmed for hypercube parallel computer project

Sysadmin Skills

- **expertise:** setup, administration, and maintenance of cloud-based services
- **Unix:** SunOS/Solaris, HP-UX, SGI, AIX; heterogeneous clusters; system scripting
- **Linux:** Ubuntu, Red Hat, Debian; Apache, Samba, FTP services

Sysadmin Experience

- Google Site Reliability Engineer Jan '10 – Jan '11
  Managed critical production services
- Caltech ITS dept. Dec '99 – Jun '02
  Unix sysadmin for Caltech IT services dept.
- Caltech CNS dept. Jan '92 – Jun '93
  Assistant sysadmin for Caltech Graphics Group

Additional Skills

- analog and digital electronics
- semiconductor processing lab
- drafting, machine tools

Additional Experience

- Rhythm & Hues Oct '96 – Sep '97
  Game designer (on SGI workstation, for Sony Playstation)
- Caltech, under Dr. Y. C. Tai summer '91
  Research: micromachined infrared detectors

Education: California Institute of Technology

- Physics major (work also in electrical engineering, mathematics)
- left with senior status