

# Summary

**James R. Bergsten**

5025 Sleepy Hollow Road  
Cameron Park, CA 95682-9695  
(530) 672-1415

[jim@thebergstens.com](mailto:jim@thebergstens.com)

<http://www.thebergstens.com/resume>

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## Conceived, developed, and marketed many commercial products

*XMENU* – 1981 – “Windows for mainframes” – Multiple ICP award winner --  
in continuous use for over 20 years  
*KPROBE* – 1982 – Post-mortem system “crash” analysis tool – ICP award winner  
*XDEBUG* – 1983 – “Visual Studio for mainframes”  
*SQLEXEC* – 1984 – SQL database interface for IBM VM systems  
*SQLMENU* – 1985 – SQL database interactive forms designer  
*K3101* – 1982 – Serial terminal to mainframe terminal protocol converter  
*KDES* – 1982 – Mainframe Data Encryption Standard utilities  
*CacheXchange* – 1991 – Mainframe remote mirroring system  
*ARK* – 1997 – Open systems advanced storage controller  
*ContinuStor Director* – 2000 – Open systems remote data mirroring appliance  
*Ark Systems OS, Storage Middleware, Appliance* – 2008-2014  
*ADS1000, NVMe host interface and enclosure* – 2014-2017

## Architect and Primary Developer of three Real-time Operating Systems

PDP-11-based graphics system for NASA satellite imagery – 1975  
IBM 370-based caching storage controller – 1991  
Intel x86-based advanced storage controller – Ark Real Time System – 1995, 2005

## Sole Inventor of fourteen “crown-jewel” U.S. Patents

## Over forty years of in-depth knowledge of all aspects of computer technology

## Founder and CEO of two successful companies

Kolinar Corporation – 1981 – Mainframe software development tools – Acquired 1988  
Ark Research Corporation – 1995 – Open systems storage products – Acquired 2000

## Consulting

Consulting for LSI Logic, Network Appliance, SanDisk, Intel, others.  
Patent Prosecution

## Extensive experience in all aspects of start-up development

Served on Boards of Directors and Executive Staff  
Wrote business plans and raised funding  
Engineered all aspects of setting up companies (incorporation, staffing,  
real estate, insurance, accounting, audits, taxes, IT, networking, internet, payroll,  
401K, option plans, legal, budgeting, cash flow, real estate)  
Negotiated acquisition and sale of two companies

## Executive and Management positions

Amdahl – 1977-1981  
Kolinar / VM Systems Group – 1981-1991  
Andor Systems – 1991-1995  
Ark Research / LSI Logic Storage Systems – 1995-2005  
Ark Systems Corp. / TraxRx Corporation / Cthia Productions – 2005-present  
Aperion Data Systems – 2014-2017  
Consultant to Intel Corporation – 2017-present

## Author of several books, product documentation, white papers, and articles

**Excellent speaker – have presented to many audiences of all sizes**

Member of IEEE, ACM, and AES, listed in Marquis Who's Who -- Science and Technology  
2002-2012, America 2001-2012, The World 2002-2012 – CISSP, CBCP, SNIA, AF6FO, CERT