Ike Nassi

Curriculum Vitae

09-Feb-2023

Video Oral History & Transcript

Computer Science Department University of California, Santa Cruz 1156 High Street Santa Cruz, CA 95064	Work: Home: Mobile:	+1-831-459-1898 +1-408-395-0376 +1-408-390-8281
Former Founder, Chair, CTO, TidalScale	Now part	t of HPE
https://www.soe.ucsc.edu/people/inassi http://www.nassi.com http://people.csail.mit.edu/nassi/	Email: Email: Email:	inassi@ucsc.edu <u>nassi@nassi.com</u> inassi@mit.edu

Education

Stony Brook University:

1970	BS	Mathematics
1972	MS	Computer Science
1974	Ph.D.	Computer Science

Academic and Industry Positions

TidalScale, Inc. Founder, CEO, Director
Founder, CTO, Chairman (sold to HPE)
UC Santa Cruz, Adjunct Professor, Computer Science & Engineering
SAP AG (Executive VP and Chief Scientist)
Senior Vice President, Head of Research, North America
co-Head, SAP Global Research
Head of Research, North America and China
Executive Vice President and Chief Scientist
Head of Global Business Incubator
Head of Sponsored Academic Research
Head of Technology Infrastructure Practice, SAP Research
Firetide, Inc., Founder, Chairman (Sold to Unicom Global)
CEO, CTO, Head of Product Operations, Chairman of the Board
CTO, Executive Vice President Product Operations, Chairman

Ike Nassi

2004-2005	CTO, Member of the Board
2000-2001	Cisco Systems (through acquisition of InfoGear) Director of Engineering, Managed Appliances and Services Business Unit
1997-2000	InfoGear Technology – CTO & Executive Vice President, Product Operations
1989-1996	Apple Computer, Inc.
1989-1993	Advanced Technology Group, Director of Engineering Founder, Advanced Technology Lab, Cambridge, MA
1993-1994	Vice President, Development Products, Cupertino, CA
1994-1995	Vice President, System Software
1995-1996	Senior Vice President, AppleSoft, Corporate Officer
1984-1989	Encore Computer, Inc.
1984-1986	Vice President, Languages and Tools
1986-1989	Vice President, Research
1985-1989	DARPA Principal Investigator
1983-1984	Visual Technology, Inc., Vice President, Software
1982-1983	Ontel Corporation, Vice President, Engineering
1976-1982	Digital Equipment Corporation
1976-1977	Sr. Software Engineer and Manager, Languages and Tools
1977-1982	Consulting Engineer & Manger Corporate Research
1974-1976	SofTech, Inc., Principal Software Engineer
Academics	
2020-present	UC Santa Cruz, Center for Research in Storage Systems SSRC/CRSS
2020-present	UC Santa Cruz, Languages, Systems, Distributed Systems Lab LSD
2015-present	UC Santa Cruz, Center for Research in Open Systems Software CROSS
2011-present	UC Santa Cruz, Adjunct Professor, Computer Science
2010-present	MIT Computer Science and Artificial Intelligence Lab,
2010 present	Research Affiliate,
2008-1011	MIT Sloan School, Center for Digital Business, Advisory Board
2009-2010	MIT Computer Science and Artificial Intelligence Lab,
2007-2010	Visiting Scientist
1997-1997	University of California, Berkeley, Visiting Scholar, EECS,
1994-1996	Stanford University, Visiting Scholar, Computer Science,
1990-1993	MIT Laboratory for Computer Science, Research Affiliate,
1//0 1//0	The European for Compared Science, Resource Infinities,

1974-1979 Boston University, Met. College, Computer Science, Instructor,

1972-1973 SUNY Farmingdale, Instructor, Data Processing,

Boards of Directors, Advisory Boards & Committees

1995-present	Computer History Museum, Founding Trustee, serving in a variety of roles including
	Chairman Fellows Selection Committee, Executive Committee, Nominating and
	Governance Committee
2019-present	TTI/Vanguard (Think Tank) Advisory Board
2008-present	IEEE Computer Society, Industry Advisory Board
2012-2015	SkyEra, Advisory Board
2012-2015	Watermark, Advisory Board
2008-2011	Northwestern University, EE&CS Advisory Board
2009-2011	Stony Brook University, Advisory Board Center for Wireless and Information
	Technology (CEWIT)
2008-2011	Peking University, Advisory Board, School of Engineering
2009-2015	Firetide, Inc., Senior Advisor
2001-2016	Viewpoints Research Institute (Alan Kay) Advisor
2009-2011	Anita Borg Institute for Women and Technology, Trustee
2006-2007	University of Arizona, Eller School of Management, Advisory Board
1989-1995	DARPA Information Systems and Technology Board
1995-1996	Taligent, Inc., Board of Directors, - Joint Venture, IBM and Apple
1990's	Component Integration Laboratories, Board of Trustees,
1980's-1990's	Computer Museum (Boston), Board of Overseers
1990's	U.S. Council on Competitiveness, Technical Advisory Committee, Federal
	Networking Council Advisory Committee

Independent Consulting

2001-2002	Required Technology, Inc. (columnar databases)
2001-2002	Replicus Software, Inc. (distributed mesh file systems)
2001-2003	Allegis Capital, Inc. Entrepreneur in Residence (venture capital)
2001-2003	Vanguard Ventures (venture capital)
2002-2003	PalmSource, Inc. (operating systems for handheld devices)

Patents:

	Company	Country	Inventor(s)	Patent #	Grant Date	Title
1	FireTide		Keith Stuart Klemba, Isaac Robert Nassi, David Neil Cornejo, Lawrence Alan Rosenthal	100425	11/18/04	Dynamic Adaptive Inter-Layer Control of Wireless Data Communication Networks

2	FireTide	US	Keith Stuart Klemba, Isaac Robert Nassi, David Neil Cornejo, Lawrence Alan Rosenthal	7305459	12/4/07	Wireless Service Point Networks
3	FireTide	US	Keith Stuart Klemba, Isaac Robert Nassi, David Neil Cornejo, Lawrence Alan Rosenthal	7522731	4/21/09	Wireless Service Points Having Unique Identifiers for Secure Communications
4	SAP	US	Asuman Suenbuel, Ike Nassi	8108234	1/31/12	System and Method for Deriving Business Processes
5	SAP	US	Yuecel Karabulut, Isaac Nassi	8843415	9/23/14	Secure Software Service Systems and Methods
6	TidalScale	USA	Isaac R. Nassi	9191435	11/17/15	Selective Data Migration Or Remapping Of Virtual Processors To Provide Required Data Accessibility To Processor Cores
7	TidalScale	USA	Isaac R. Nassi	9609048	3/28/17	Resource Request And Transfer In A Multi-Node Distributed System
8	TidalScale	USA	Isaac R. Nassi	10187452	1/22/19	Hierarchical Dynamic Scheduling
9	TidalScale	USA	Isaac R. Nassi	10205772	2/12/19	Selective Resource Migration
10	TidalScale	USA	Isaac R. Nassi, Kleoni Ioannidou, David P. Reed, I- Chun Fang, Michael Berman, Mark Hill, Brian D. Moffet	10353736	7/16/19	Associating Working Sets And Threads
11	TidalScale	S. Korea	Isaac R. Nassi, David P. Reed	10-2051282	11/27/19	Network Attached Memory Using Selective Resource Migration

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12	TidalScale	Japan	Isaac R. Nassi, David P. Reed	6652646	1/27/20	Network Attached Memory Using Selective Resource Migration
13	TidalScale	USA	Isaac R. Nassi, Mark Hill, I-Chun Fang, Kleoni Ioannidou	10579421	3/3/20	Dynamic Scheduling Of Virtual Processors In A Distributed System
14	TidalScale	USA	Isaac R. Nassi, Kleoni Ioannidou, Michael Berman, Mark Hill, Brian D. Moffet, Jeffrey Paul Radick, David P. Reed, Keith Reynolds	10579274	3/3/20	Hierarchical Stalling Strategies For Handling Stalling Events In A Virtualized Environment
15	TidalScale	USA	Isaac R. Nassi	10623479	4/14/20	Selective Migration Of Resources Or Remapping Of Virtual Processors To Provide Access To Resources
16	TidalScale	USA	Isaac R. Nassi, Kleoni Ioannidou, Brian D. Moffet, Michael Berman, David P. Reed	10620992	4/14/20	Resource Migration Negotiation
17	TidalScale	USA	Isaac R. Nassi	10645150	5/5/20	Hierarchical Dynamic Scheduling
18	TidalScale	Germany	Isaac R. Nassi, David P. Reed	602016037237.1	5/27/20	Network Attached Memory Using Selective Resource Migration
19	TidalScale	European	Isaac R. Nassi, David P. Reed	3356936	5/27/20	Network Attached Memory Using Selective Resource Migration
20	TidalScale	France	Isaac R. Nassi, David P. Reed	3356936	5/27/20	Network Attached Memory Using Selective Resource Migration
21	TidalScale	UK	Isaac R. Nassi, David P. Reed	3356936	5/27/20	Network Attached Memory Using Selective Resource Migration
22	TidalScale	USA	Isaac R. Nassi, Kleoni Ioannidou, David P. Reed, I-	10783000	9/22/20	Associating Working Sets And Threads

			Chun Fang, Michael Berman, Mark Hill, Brian D. Moffet			
23	TidalScale	USA	Isaac R. Nassi, David P. Reed, Mark Hill	10817347	10/27/20	Entanglement Of Pages And Guest Threads
24	TidalScale	USA	Isaac R. Nassi, Kleoni Ioannidou, Michael Berman, I-Chun Fang, Mark Hill, Brian D. Moffet, Jeffrey Paul Radick, David P. Reed, Keith Reynolds	11023135	6/1/21	Handling Frequently Accessed Pages
25	TidalScale	USA	David P. Reed, Isaac R. Nassi, Gary Smerdon	11050620	6/29/21	Dynamic Reconfiguration Of Resilient Logical Modules In A Software Defined Server
26	TidalScale	Japan	Isaac R. Nassi, Kleoni Ioannidou, David P. Reed, I- Chun Fang, Michael Berman, Mark Hill, Brian D. Moffet	6924820	8/4/21	Associating Working Sets And Threads
27	TidalScale	USA	Isaac R. Nassi	11159605	10/26/21	Hierarchical Dynamic Scheduling
28	TidalScale	China	Isaac R. Nassi, David P. Reed	ZL201680069485.7	11/16/2021	Network Attached Memory Using Selective Resource Migration
29	TidalScale	USA	David P. Reed, Isaac R. Nassi, Pete Jarvis	11175927	11/16/2021	Fast Boot
30	TidalScale	USA	Isaac R. Nassi, David P. Reed	11240334	2/1/22	Network Attached Memory Using Selective Resource Migration
33	TidalScale	USA	Leon Dang, Keith Reynolds, Ike Nassi	11275600	3/15/22	Virtualized I/O
32	TidalScale	USA	Isaac Nassi, Ioannidou,	11403135	8/2/22	Resource Migration Negotiation

			Moffet, Berman, Reed			
33	TidalScale	USA	David Reed, Isaac Nassi	11487451 B2	11/01/22	Fast Restart Of Large Memory Systems
34	TidalScale	USA	Isaac Nassi, Hill, Fang, Ioannidou	11513836	9/14/22	Scheduling Resuming Of Ready to Run Virtual Processors in a Distributed System
35	TidalScale	USA	Isaac R. Nassi et al	11449233	9/20/22	Hierarchical Stalling Strategies For Handling Stalling Events In A Virtualized Environment

Sponsoring and Participating in New Sponsored SSRC/CRSS UCSC Project:

Linux Optimizations for Distributed Virtual Machines - joint with CSE Prof. Andrew Quinn

Awards & Honors

2022 Fellow of the IEEE and Senior Life Member

- 2021 ACM Life Member
- 2005 Distinguished Graduate Alumni, Computer Science Department, Stony Brook University
- 1995 Certificate of Appreciation, DARPA Information Science and Technology Study Group
- 1991 US House of Representatives, Testimony, Emerging Technologies Act of 1991
- 1983 Certificate for Distinguished Service, US Department of Defense

Student Ph.D. Committees:

Austin Barker	UCSC– Advisor Prof. Darrell Long Title: "Artemis: A Stenographic File System"
Mevlut Demers	UT San Antonio – Advisor: Prof. Jeff Prevost A Complete, Automated and Scalable Framework for Science And Engineering
Michael Sevilla	UCSC – Advisor: Prof. and Vice Chancellor Research, Scott Brandt "Scalable Global Name Spaces with Programmable Storage"
Dimitris Skourtis	UCSC – Advisor: Prov. and Vice Chancellor Research, Scott Brandt <i>"Providing Predictable Performance in Flash and Black-box Storage"</i>
David L. Black	CMU – Advisor: Rick Rashid. "Scheduling Support for Concurrency and Parallelism in the Mach Operating System"

Recent Course Participation:

2021 Winter and Spring CSE 13S Systems Programming and C (Prof. Darrell Long)2021 Winter and Spring CSE 138 Distributed Systems (Prof. Lindsay Kuper)

Research Funding:

2021-present	TidalScale – Membership IAB for CRSS, \$15,000
2011-present	SAP – Performance Analysis for Big Data, \$200,000
1986-1989	DARPA – Hierarchically Structured Multiprocessors, \$23,500,000

Publications (Isaac Nassi | I. Nassi | Ike Nassi | IR Nassi):

(See all papers at https://nassi.com/speaking-engagements.html)

Technical Publications

- <u>Motivations behind TidalScale</u>
- <u>Scalable Computing Systems for Future Smart Cities</u>
- <u>Cache is indeed king TidalScale Blog Post</u>
- <u>Revisiting Scalable Coherent Shared Memory, Bell and Nassi, IEEE Computer, Special Issue:</u> <u>Outlook 2018, January 2018</u>
- <u>Scaling the Computer to the Problem: Application Programming with Unlimited Memory, IEEE</u> <u>Computer, August 2017</u>
- <u>SupMR: Circumventing Disk and Memory Bandwidth Bottlenecks for Scale-up MapReduce</u>, Sevilla, Michael; Nassi, Ike, Ioannidou, Kleoni; Brandt, Scott; Maltzahn, Carlos, 2014 IEEE International Parallel & Distributed Processing Symposium Workshops, May 2014
- <u>Mantle: A Programmable Metadata Load Balancer for the Ceph File System</u>, Supercomputer 15, Michael Sevilla, Carlos Maltzahn, Ike Nassi, Scott Brandt, Sage Weil, Greg Farnum, Sam Fineberg
- <u>A Framework for an In-depth Comparison of Scale-up and Scale-out</u>, Mike Sevilla, Ike Nassi, Kleoni Ioannidou, Scott Brandt, Carlos Maltzahn, DISCS-2013: Proceedings of the 2013 International Workshop on Data-Intensive Scalable Computing Systems
- <u>Transactional Intent, Shel Finkelstein, Thomas Heinzel, Rainer Brendle, Ike Nassi, and Heinz</u> <u>Roggenkemper, 5th Biennial Conference on Innovative Data Systems Research (CIDR '11), January</u> <u>2011</u>
- <u>Y. Karabulut and I. Nassi: Secure Enterprise Service Consumption for SaaS Technology Platforms,</u> <u>1st IEEE Workshop on Information and Software as Services, Shangai, China, March 2009,</u>
- <u>The Challenges of Application Service Hosting, Ike Nassi, Joydip Das, and Ming-Chien</u> <u>Shan, Lecture Notes in Computer Science, Springer Verlag 4607/2007, Web Engineering, Pages</u> <u>545-549.</u>
- <u>Secure Scripting Based Composite Application Development: Framework, Architecture, and</u> <u>Implementation by Dinkelaker, Johnstone, Karabulut, and Nassi. In Proceedings of the 3rd</u> <u>International Conference on Collaborative Computing: Networking, Applications, and</u> Worksharing, sponsored by the IEEE Computer Society, et al. New York, Nov. 12-15, 2007.
- <u>Government Agency Interoperation in Security Applications by N. Adams et al, Chapter 14,</u> <u>Handbooks in Information Systems Volume 2, National Security. Elsevier 2007. Edited by H. Chen</u> <u>et al.</u>

- <u>Semantics-based Threat Structure Mining, Adam et al, Proceedings of the 2006 international</u> <u>conference on Digital Government Research</u>
- Preface to the book "Dylan, An Object Oriented Dynamic Language". Apple Computer Inc. (1992).
- <u>Symmetric Parallel Processing, w/ Ilya Gertner, in the book "Aerospace Software Engineering",</u> <u>Chris Anderson, ed. Volume 136 Progress in Astronautics and Aeronautics (1991)</u>
- A Preliminary Report on the UltraMax, DARPA Conference on Mathematical and Scientific Computing, 1987, (Syracuse University)
- An Analysis of Continuous Time Simulation on a Shared Memory Multiprocessor, with S. Mainwaring, Encore Technical Report 87-001
- The Encore Multimax: A Multiprocessor Computing Environment, with Moore, O'Neil, Siewiorek, in 32-Bit Microprocessors, Nikkei Datapro Books II (1986)
- <u>The Encore Continuum: A Complete Distributed Workstation-Multiprocessor Computing</u> <u>Environment, with G. Bell, H. Burkhardt, S. Emmerich, A. Anzelmo, R. Moore, D. Schanin, and C.</u> <u>Rupp, Proceedings of the National Computer Conference, AFIPS Vol. 54, pp. 147-155, 1985</u>
- Liberty Net, An Architectural Overview, IEEE Compcon, 1982
- What is Ada?, with R. Brender, June 1981 IEEE Computer
- A Critical Look at the Process of Tool Development: An Industrial Perspective, in Software Development Tools, Riddle and Fairley (eds.), Springer Verlag, 1980
- Efficient Implementation of Ada Tasks, with A. N. Habermann, DEC Technical Report, 1980 (Tech. Rept. CMU-CS-81-147, Carnegie Mellon University, Pittsburgh, PA, June, 1981)
- VAX-11 Software Engineering Manual, January 1977
- Operational Equivalence and a Hierarchy of Control Languages, Eighth Annual Princeton Systems Conference on Information Sciences and Systems, 1974
- Nassi, I.R. and Akkoyunlu, E.A. "Verification Techniques for a hierarchy of Control Structures", Technical Report #26, Dept. of Computer Science, SUNY Stony Brook, January 1974, 48 pp
- Structured Flowcharts, with B. Shneiderman, SIGPLAN Notices, 1973

Invited Conference Presentations and Panel Discussions:

- <u>The Practical Advantages of Distributed Virtual Machines and How They Work (UCSC LSD</u> <u>Seminar</u>) 2023-02-03
- <u>Using a Scaled-up Software-Defined Server as an Alternative to Scaling Out</u> (IEEE Computer Society Industry Spotlight)
- <u>TTI/VScale Up or Scale Out? (TTI/Vanguard) 2021-09-21</u>
- Insights and Motivations for TidalScale (video)
- <u>The Importance of In-Memory Computing (video)</u>
- <u>Invited Presentation: In- and Near-Memory Computing Paradigms, Software Defined</u> <u>Servers, 2019 Design Automation Conference, Las Vegas Convention Center; 2019-June</u>
- <u>Seminar on Software-Defined Servers, ETRI, Daejeon, South Korea; 2019-May (with pictures)</u>
- Invited Keynote Presentation: Software Defined Servers, Multicore and Multiprocessor <u>SOCs Forum 2018</u>
- Blog: <u>Achieving Painless Reliability: An Alternate Approach 2018-05</u>
- Blog: <u>Predicting Yesterday's Weather</u> (2017-05)

- How to Build a Software-Defined Server, and How Best to Use it, invited presentation, <u>Supercomputing Frontiers Conference 2017</u>, Singapore
- Comparing a Virtual Supercomputer with a Cluster for Spark in-memory Computations, Machine Learning Converence 2016 New York, April 2016
- Advances in Virtualization In Support of In-Memory Big Data Applications, Faculty Colloquium, Computer Science Department, SUNY Stony Brook
- Advances in Virtualization In Support of In-Memory Big Data Applications, HTPS September 2015
- <u>Software-Scaled Computing: Resizing the Computer to Fit the Application</u>, TTI-Vanguard "Reprogramming Programming", 2014-09-30, Washington DC,
 - (video of pesentation@YouTube)
- The Emergence of Data Science, Why Now?, Baskin School of Engineering, UC Santa Cruz,, October, 2013
- A Framework for an In-depth Comparison of Scale-up and Scale-out, Michael Sevilla, Ike Nassi, Kleoni Ioannidou, Scott Brandt and Carlos Maltzahn, The 2013 International Workshop on Data-Intensive Scalable Computing Systems (DISCS-2013) November 18, 2013
- MITRE Corporation, "Enterprise Supercomputers", McLean VA & Bedford MA (telecast), October 13, 2011
- TTI/Vanguard, "Real" Real Time Conference, Enterprise Supercomputers, Paris, July 12, 2011
- SAP Closing keynote, SAP Research Day, July 5, 2011, Catching the Wave: Tackling the Inflection Point in Enterprise Computing
- Microsoft Research on Enterprise Supercomputers, June 17, 2011
- MIT/CSAIL on Enterprise Supercomputers, June 1, 2011
- MIT/Sloan on Enterprise Supercomputers, June 1, 2011
- Invited Keynote Presentation -<u>Third Symposium of the HyperTransport</u>[™] Center of Excellence Mannheim, February 8-9th, 2011
- Transactional Intent with Shel Finkelstein, Thomas Heinzel, Rainer Brendle, Ike Nassi and Heinz Roggenkemper. 5th Biennial Conference on Innovative Data Systems Research (CIDR '11) January 9-12, 2011, Asilomar, California, USA.
- Invited presentation <u>It's Groundhog Day all over again!</u> JHTC, July 13, 2010
- End-to-End Confidentiality for a Message Warehousing Service Using Identity-Based Encryption Yuecel Karabulut, Harald Weppner, Ike Nassi, Anusha Nagarajan, Yash Shroff, Nishant Dubey, Shields, ICDE Workshops 2010
- Invited Keynote Presentation Web Services: Meeting the Software Challenge of Future HW and Global Business Trends (July 11 2007) 2007 IEEE Congress on Services (Joint Conference: IEEE International conference on Web Services (ICWS 2007) and IEEE International Conference on Services Computing (SCC 2007))
- Panel Discussion Innovating with Partners in China: Negotiation, Collaboration, and IP Strategies for New Product Development (March 28-29, 2007) The Management Roundtable (http://www.ManagementRoundtable.com)

- Induction of Alan Kay into the Computer Resellers News Hall of Fame (November 2006)
- Issues in Wireless Mesh Networking, Distinguished Alumni Lecture, 35th Anniversay of the Founding of Stony Book University's Computer Science Department (May 2005)
- The Advantage of Invisibility and Cooperation in Wireless Mesh Networks, IEEE 802.11 TGs, Atlanta (March 2005)
- "Wireless Mesh Networks", Red Herring 100 conference, Monterey (December 2004)
- Panel: Wireless Mesh Networks, WiFi Planet conference, San Jose (November 2004)
- Panel: Wireless Mesh Networks, Next Generation Networks (November 2004)
- Webinar (Unstrung): Introduction to Wireless Mesh Networks (July 2004)
- Webinar: (Unstrung): Wireless Mesh Networks (June 2004)
- Panel: "Putting HotSpots to Work", CeBIT America (May 2004)
- Panel on Mesh Networking, Eye for Wireless Conference, San Francisco (April 2004)
- Emergence of Wireless Mesh Networking, O'Reilly Emerging Technology Conference, San Diego (February 2004)
- Panel on Wireless Mesh Networking, WiFi Planet, December 2003
- The Emergence of Wireless Local Area Mesh Networks, TTI Vanguard Conference on Resiliency, Brussels (July, 2002)
- Embedded Process Forum, panel on Internet Appliances (June, 2000)
- Spring Internet World (1998)
- Fortune Magazine Information Technology Conference, panel on Internet Appliances(1998)
- PC-Expo (1998)
- Apple Technology Forum, Beijing (1994)
- Apple WorldWide Developers Conference (1994, 1995, 1996)
- IBM T.J. Watson Research Center (March 1993)
- Rochester Apple Developer's Association (January 1993)
- Bay Area MADA (May, 1992)
- Invited Presentation on Advanced Technology at Apple (1992), Harvard Business School
- <u>U.S. House of Representatives, Committee on Energy and Commerce, Subcommittee on</u> <u>Telecommunications and Finance. Testimony on HR 531, "Emerging Telecommunications</u> <u>Act of 1991" (March 12, 1991)</u>
- Boston Computer Society Mac MegaMeeting (1990)
- C-3 Technology Assessment Conference, Defense Communications Agency and the National Security Industrial Association (1989)
- SDIO Parallel Processing Users Group (1987, 1988)
- San Diego SIGAda (1988)
- Bay Area SIGAda (1988)
- Colloquium, Iowa State University (1989)
- Boston SICPLAN (1987)
- National Computer Conference (1987)
- Issues in Wireless Mesh Networking, Distinguished Alumni Lecture, 35th Anniversay of the Founding of Stony Book University's Computer Science Department (May 2005)

- The Advantage of Invisibility and Cooperation in Wireless Mesh Networks, IEEE 802.11 TGs, Atlanta (March 2005)
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- Panel: Wireless Mesh Networks, WiFi Planet conference, San Jose (November 2004)
- Panel: Wireless Mesh Networks, Next Generation Networks (November 2004)
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- Webinar: (Unstrung): Wireless Mesh Networks (June 2004)
- Panel: "Putting HotSpots to Work", CeBIT America (May 2004)
- Panel on Mesh Networking, Eye for Wireless Conference, San Francisco (April 2004)
- Emergence of Wireless Mesh Networking, O'Reilly Emerging Technology Conference, San Diego (February 2004)
- Panel on Wireless Mesh Networking, WiFi Planet, December 2003
- The Emergence of Wireless Local Area Mesh Networks, TTI Vanguard Conference on Resiliency, Brussels (July, 2002)
- Embedded Process Forum, panel on Internet Appliances (June, 2000)
- Spring Internet World (1998)
- Fortune Magazine Information Technology Conference, panel on Internet Appliances(1998)
- PC-Expo (1998)
- Apple Technology Forum, Beijing (1994)
- Apple WorldWide Developers Conference (1994, 1995, 1996)
- IBM T.J. Watson Research Center (March 1993)
- Rochester Apple Developer's Association (January 1993)
- Bay Area MADA (May, 1992)
- Invited Presentation on Advanced Technology at Apple (1992), Harvard Business School
- <u>U.S. House of Representatives, Committee on Energy and Commerce, Subcommittee on</u> <u>Telecommunications and Finance. Testimony on HR 531, "Emerging Telecommunications Act of</u> <u>1991" (March 12, 1991)</u>
- Boston Computer Society Mac MegaMeeting (1990)
- C-3 Technology Assessment Conference, Defense Communications Agency and the National Security Industrial Association (1989)
- SDIO Parallel Processing Users Group (1987, 1988)
- San Diego SIGAda (1988)
- Bay Area SIGAda (1988)
- Colloquium, Iowa State University (1989)
- Boston SICPLAN (1987)
- National Computer Conference (1987)

Recent Interviews

- Interview on Phoenix TV (China)
- Q&A: The Digital World Is the Real World
- When RFID Is Everywhere, How Will You Cope

Ike Nassi

Products:

- 1. BCPL compiler for PDP-15
- 2. Jovial/J3B compiler for IBM 4Pi/AP 101 (special project)
- 3. Jovial/J3B avionics compiler for Litton 4516D (used in the B-1 bomber)
- 4. Jovial/J3b avionics compiler for Delco Magic 362F (used in the F-16 fighter)
- 5. Vax-11 Software Engineering Manual w/ Transportability Guidelines
- 6. Vax-11 Bliss Compiler
- 7. Bliss for PDP-10/20
- 8. Bliss for PDP-11
- 9. Vax-11 Debug
- 10. Vax-11 Runoff
- 11. Bliss Pretty-Print
- 12. Vax-11 Autodial
- 13. Vax-11 Ada Compiler
- 14. Vax-11 Ada multithreaded run-time system
- 15. Vax-11 String instruction definitions
- 16. Vax-11 Run Time Library
- 17. Ontel Terminal Emulator
- 18. Ontel Amigo Personal Computer, CPM-80
- 19. Visual Technology CPM-80 Personal Computer
- 20. Visual Technology PC-DOS Portable Computer
- 21. Visual Technology Multi-user Xenix System
- 22. Encore Resolution R-100 Graphics Terminal
- 23. Encore Fortran compiler
- 24. Encore Pascal compiler
- 25. Encore C compiler
- 26. Encore Multimax Shared Memory Multiprocessor
- 27. Encore Ada
- 28. Encore Parallel Debugger (Parasight)
- 29. Encore Parallel Ada
- 30. Encore Ultramax Hierarchical Shared Memory Multiprocessor
- 31. Rely-Drive High Capacity Disk Subsystem for Mac Plus
- 32. Macintosh Common Lisp
- 33. Macintosh Dylan

- 34. Macintosh MPW (developer tools suite)
- 35. Macintosh Apple InterConnection Kit (AICK pronounced "Ike")
- 36. Mac-Mach (Mach on PowerPC Macintosh)
- 37. Mac OS Releases (various releases on Motorola 68K and PowerPC 7.5/7.6/7.8, etc.)
- 38. InfoGear iPhone
- 39. InfoGear iPhone-2
- 40. InfoGear/Cisco Voyager (unreleased wireless webpad)
- 41. Firetide indoor wireless mesh router (various versions)
- 42. Firetide outdoor wireless mesh router (various versions)
- 43. SAP Enterprise Supercomputer (shared memory multiprocessor)
- 44. SAP Enterprise Supercomputer (tightly coupled multiprocessor)
- 45. TidalScale Hyperkernel (various versions)