NATHANIEL POLISH, Ph.D. Daedalus Technology Group, Inc. 135 West 26th Street New York, NY 10001 (212) 684-3890

business experience 1980-present

President

Daedalus Technology Group, Inc. successor to NPS ASSOCIATES

Co-founded computer consulting firm. Employs up to twenty people as needed.

clients include:

Intellectual Property Consulting. Various anonymous clients. NEW YORK, NY Consulting on patent valuation and strategy: Act as an advisor on technical and intellectual property matters to various clients. Developed intellectual property for various companies. 2001present.

SpokenHub.

NEW YORK, NY Predictive dialer deployment and operation: During the 2012 election cycle assembled and ran a team of engineers to deploy, debug, and operate a large scale outbound calling server farm. This server farm supported hundreds of agents and millions of minutes of calling. 2012.

Risk Solutions International.

NEW YORK, NY Risk management: Developed technology platform to allow for complex question and answer sessions with airport managers. The results of the sessions then generated planning documents used in risk management. Results were published as part of a Transportation Research Board research program. 2011-2013.

SmartSystems/Specialty Acquirer.

Advanced Transit fare collection: Founding member of board of directors. Advisor on technical and intellectual property matters. Developed intellectual property for the company. The company is engaged in the development and sale of advanced fare collection systems for mass transit using RFID technologies. 2004-present.

Skywi.

Wireless broadband: Founding board of directors member. Advisor on technical and intellectual property matters. The company provides a variety of wireless broadband services to semi-rural customers using mesh networks. 2004-2009.

Placecorp.

Wireless text messaging system: Designed and developed a very large scale, multi-platform text messaging system. Acted as the lead technologist for a startup. In this capacity attended many venture capitol meetings and developed all technical sections to the business plans. The system integrated advanced Interactive Voice Response (IVR) with email, paging, and SMS messaging. Oversaw and planned initial development of very small paging device to me manufactured in very high volume. 2000-2001.

Marketboy.

Distributed market making system: Provided a range of services in the areas of product definition, specification, and implementation strategy. Marketboy was a distributed system that allowed prospective purchasers and vendors to make bid and ask offers for proposed transactions. 2000.

Savos.

DOCKE.

NEW YORK, NY Telephone to streaming audio bridge: Developed, designed and deployed an industrial strength IVR system that allows users to access streaming media via their cell phones. The system supports up to 96 streams on a single chassis. Developed web based content management system and interface for customizable user preferences. 2000.

FORT WORTH, TX

NEW YORK, NY

NEW YORK, NY

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NEW YORK, NY

NEW YORK, NY

deliverENow.

Online delivery system: Developed a proof of concept prototype of online delivery system. This consisted of a stock clerk server written for Windows CE (Clio) with a CDPD network connection. It demonstrated how purchase and delivery information would be sent to an in-store stock person who prepares them for pickup by a member of the deliverENow courier network. Provided strategic technical advice. Served on board of advisors. Wrote technical specification of business and logistical components of the system. 2000.

Togglethis.

Animation distribution system: Developed critical components of initial version of email-delivered animation system. Components included MacroMedia Director Xtras as well as encryption functions. Developed tools to distribute and manage Togglethis's content, DTG built a custom UNIX email list-server. This server allowed Toggle administrators to create groups, upload episodes, and schedule the delivery of their content. Developed system architecture and language specification for the next version of the IC Engine, which drives the characters. 1998-1999.

JuniorNet.

Children's on-line service: Designed, developed and lead the implementation of a large scale network system for delivery of children's entertainment and education content. Worked with the president and other key players to fit a technology strategy to corporate goals. System is required to serve from 200,000 to 1,000,000 subscribers and be supportable over three to five years. All project goals met within a \$1,000,000+ budget. 1997-2000.

One Click Charge.

Provide a wide range of consulting services starting with technology evaluation for the principal investor. Provided services in the areas of product definition, team formation and implementation strategy. Developed significant components of a substantial Internet micropayment and authentication system. 1998-2000.

Swatch.

WEEHAWKEN, NJ

Ticketing system: Implemented a radio frequency identification (RFID) based system for providing access to the 1998 Goodwill Games utilizing RFID tagged wristwatches. 1998-1999.

Instant Video Technologies, Inc./Burst.com

Burstware --. Designed and developed a series of products to deliver digital video and audio materials over wide-area internet using consumer grade computers. Products were designed to fit within the client's existing patent portfolio. 1995-1997.

Technical evaluation --. Provided technology strategy and evaluation services and acted as Technology Director. 1995-1997.

Assurenet.

DOCKET

Internet Insurance system --. Designed and developed a system for utilization of the Internet for the distribution and control of insurance agent support software. System can handle tens of thousands of simultaneous users. Member of Board of Directors. 1995-2002.

New Zealand Antarctic Project (NZAP) and US Antarctic Program (USAP). ANTARCTICA Penguin Weighbridge - Designed, developed, and deployed system for tracking the comings and goings, weights, and Ids of Adelie penguins in their natural environment on three colonies on Ross Island, Antarctica. Systems run continuously for months in adverse conditions. 1994-present.

Electronic Digital Documents, Inc. Check Image Compression system --. 1995-1999.

American Veterinary Identification Devices, Inc. AVID reader -- Designed and developed digital computer components of radio frequency

SAN FRANCISCO, CA

NEW YORK, NY

NORCO, CA

identification system. Work involved imbedded microcontrollers and real-time digital signal

NEW YORK, NY

NEW YORK, NY

BOSTON, MA

NEW YORK, NY

BETHESDA, MD

processing in very noisy environment. Designed communications protocols including encryption and error checking schemes. Product in high volume (50,000 unit) production. 1988-1995.

Bannon & Co.

Financial models -- Developed detailed financial model of business with 49 separate operating entities in six separate operating companies under two holding companies. Models included projections and actuals on a quarterly basis over ten years. 1993.

Technology valuation -- Provided technology evaluation and valuation services for private placement memoranda for technology companies. 1993.

Amprobe Instrument, Inc.

LONG ISLAND, NY **REMCON tester** -- Designed and implemented product life-cycle test fixture for a new and innovative solid state switch. Test fixture used by Underwriters Labs for approval. 1988.

Personal Computer Card Corporation

Smart Cards -- Designed smart card reader/writer system. Performed general design and component selection and wrote software for smart card communications. System design implemented in commercial product. 1987.

The Dun & Bradstreet Corporation

Voice editing systems -- Designed and built all parts of four generations of interactive voice editing systems. Editing systems produce output used in extensive, high quality speech synthesis system that is part of larger information delivery system. The systems are built on networks of computers in a variety of programming languages and systems. The system involved interactive user interfaces, screen windows, signal processing, and voice file systems. 1982-1991.

Co-Founder, Director and CTO 1997-2001 I-RECALL, INC.

1996-1999 Co-Founder, Director, CTO & Principal Product Designer SOLILOOUY, INC.

Natural language interfaces to databases: Co-founded in 1996 a company to provide next generation interfaces to structured databases. Developed prototype system using speech recognition and speech synthesis to provide access to music and ecommerce databases. Raised \$1.5 million in angel investments. Company has raised a total of \$8 million through a variety of institutional and individual investors. Hired replacement CTO and exited company in 1999.

1991-1992 President & Principal Product Designer

SIMPLICITY COMPUTING, INC.

Co-founded in 1991 a computer peripherals manufacturing company concentrating on portable products with international mass-market appeal. Main product: Simplicity Portable Drive, an IBMPC parallel port connected, portable disk storage system. Marketed domestically and in 25+ countries. Products marketed direct via telemarketers, trade shows, sales reps, and national advertising. Products distributed through dealers, distributors and national catalog houses. Company employed 10 people.

- Wrote business plan and raised \$350,000 startup funding
- •Established marketing plans
- •Directed marketing of products in trade shows, national advertisements and focus groups
- •Managed employees

DOCKE.

- •Designed hardware and software for products
- •Supervised hardware & software implementation teams. First units shipped less than six months from start of project.
- Supervised all aspects of manufacturing and testing process. Contracted with four manufacturing facilities and many suppliers for production.
- •Supervised and established call-in customer support services

President & CEO 1989-1999 MEASUREMENT & CONTROL PRODUCTS, INC.

NEW YORK, NY

BEVERLY HILLS, CA

NEW YORK, NY

NEW YORK, NY

NEW YORK, NY

NEW YORK, NY

NEW YORK, NY

Founded in August 1989 an electronic products development company. M&CP designs, develops, markets and sells its own products through retail, wholesale and catalog channels domestically and abroad. All manufacturing is contracted. Company was profitable in its first year of operation. **Flagship product:**

BitView -- Hand held RS-232 data communications diagnostic monitor. Invented, developed and produced hardware and software. Developed and oversaw implementation of marketing strategies, budgets, and business plans. Product currently in third production run.

education 1980-1993	COLUMBIA UNIVERSITY NEW YO	RK NV
1900-1995	Ph.D. in Computer Science, May 1993,	NN , N I
	Thesis: Mixed Distance Measures for the Optimization of Concatenative Vocabularies in Speech Synth	iesis.
	MPhil in Computer Science, December 1989.	
	MS in Computer Science, December 1987.	
	BA in Physics, Columbia College, May 1984.	
teaching		
positions		DIZ NIV
1997	COLUMBIA UNIVERSITYNEW YOAdjunct Professor, Computer Science.NEW YO	KK, NY
	Advanced undergraduate course: Artificial Intelligence.	
1989	COLUMBIA UNIVERSITY NEW YO	RK, NY
	Graduate Lecturer, Computer Science.	
	Advanced undergraduate course: Software Design. Taught 68 advanced undergraduates. Sup	ervised
	two teaching assistants. Students implemented full spreadsheet application under UNIX.	
1984-1985	CITY UNIVERSITY OF NEW YORK NEW YO	RK NV
1)04-1)05	Adjunct Professor, Experimental Psychology.	NIN, IN I
	Graduate-level course: Computer Methods in Experimental Psychology.	
publications	1 1 5 65	
and patents		
2010	Michael L. Beigel, Nathaniel Polish, Steven R. Frank, and Robert E. Malm. Electronic Identification	cation
	System with Improved Sensitivity. United States Patent 7,737,821B2. June 15, 2010.	
2009	Cilbourned Martin and Dalich Nothenial Learning Fare Collection System for Mass Transit United	Ctatoo
2009	Silbernagl, Martin and Polish, Nathaniel. Learning Fare Collection System for Mass Transit. United Patent 7,568,617. August 4, 2009.	States
2009	Silbernagl, Martin and Polish, Nathaniel. Learning Fare Collection System for Mass Transit. United	States
	Patent 7,566,003. July 28, 2009.	
2002	Beigel, Michael L.; Polish, Nathaniel; Frank, Steven R.; Malm, Robert E. Electronic identification syste	m with
2002	improved sensitivity. United States Patent 6,472,975. October 29, 2002.	iii witti
	mproved sensitivity. Officed states Faterit 0,472,975. October 29, 2002.	
2002	Nathaniel Polish. Bilateral speech system. Speech dialogs for database access. United States Paten	t
	6,430,531. August 6, 2002.	
1000		
1999	Nathaniel Polish. System and method for distributing and managing digital video information in a vid	eo
	distribution network. United States Patent 5,963,202. October 5, 1999.	
1993	Michael L. Beigel, Nathaniel Polish and Robert E. Malm. Multi-Mode Identification System.	
1990	Fundamental RFID technology. United States Patent 5,235,326. August 10, 1993.	
1991	Nathaniel Polish. Mixed Distance Measures for Synthetic Speech Evaluation. In Proceedings of	f
	ICASSP-91, Toronto, Canada, 1991.	
1000	Nathanial Daliah - A Diatrikuta d Cianal Dragonaina Eagilita fan Graagh Dagonneh - In Dragondius	a af
1988	Nathaniel Polish. A Distributed Signal Processing Facility for Speech Research. In <i>Proceedings AVIOS88</i> , San Francisco, CA. October 4-6 1988.	5 <i>0</i> f
	1110300, San Hancisco, CA. October 4-0 1700.	
1987	Nathaniel Polish. Mixed Distance Measures for Optimizing Concatenative Vocabularies for S	peech
	Synthesis: A Thesis Proposal. Columbia University Department of Computer Science technica	al
	report number CUCS-310-87, 1987.	
1000	M Marrie M Daliah D Zealconner and M Keller The Terry (M. 1, 1, 2, 1, 1, 4)	7-11
1983	M. Morris, N. Polish, B. Zuckerman, and N. Kaifu. The Temperature of Molecular Gas in the C Center Region. <i>The Astronomical Journal</i> , 88(8):1228-1235, August 1983.	Jalactic
	Center Region. The ristronomical journal, 00(0).1220-1255, August 1705.	

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