

alexander geis, multimedia engineer

PERSONAL INFORMATION

name Alexander Edward Geis
born September 16, 1981, New York
focus The creation of specialized hybrid systems through the combined use of electromechanical engineering, advanced digital multimedia, data science and higher level mathematics.

CONTACT INFORMATION

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EDUCATION

the green vale school	Graduated, June 1997
the hotchkiss school	Graduated, June 2000
new york university	Select Classes, June 2000
carnegie mellon university	Bachelor of Science in Mechanical Engineering, May 2004 Minor in Film and Digital Imaging, May 2004 Select Classes in Music Technology, 2009-2010

PERFORMANCE

carnegie mellon university	3.21 QPA
gre general mathematics	780
ap calculus bc	4
ap physics mechanics	4
ap physics electromagnetism	4
sat2 math iic	790
sat2 physics	720
sat2 chemistry	730

SOFTWARE BACKGROUND

languages natively fluent	<ul style="list-style-type: none">• Backend• Web	Awk, Lua, R, Unix Shell Javascript, jQuery, PHP
languages con conversationally fluent	<ul style="list-style-type: none">• Backend• Web	C, Node, Perl, Python AJAX, CSS3, HTML5
operating systems natively fluent	<ul style="list-style-type: none">• *nix• Mac	CentOS, Debian, IRIX, Ubuntu Mac OS 7-9, Mac OS X
software open source	<ul style="list-style-type: none">• Database• Mail• Web	MySQL, Redis Dovecot, Mailman, Postfix Apache, Nginx OpenResty
software proprietary	<ul style="list-style-type: none">• Adobe• Autodesk• Avid	Creative Suite Master Collection Maya Media Composer, ProTools

HARDWARE BACKGROUND

multimedia	<ul style="list-style-type: none">• Extensive knowledge in video SD and HD standards, I/O and codecs• Optimized compression of video and audio for local and remote playback• Advanced color-space, frame rate and standards conversion• Audio recording, mixing and mastering knowledge for specialized media• Video editing, composition, special effects and color grading
networks	<ul style="list-style-type: none">• Advanced layer 2-7 networking• Bandwidth optimization for high load data networks• Datacenter hardware and networking deployment• Low latency networking and OS stack design
systems	<ul style="list-style-type: none">• Server and workstation maintenance for Macintosh and Linux• Network services including AFP, DHCP, DNS, FTP, ISCSI, NAT, NFS and VPN• VMWare ESXi and virtual machine configuration• Cloud deployment via AWS, Digital Ocean, Google and IBM• Advanced database optimization for big data structures• Custom scalable object store filesystems design

EMPLOYMENT

21 productions, inc.

january 2002 – present

Founder and President
Chief Technology Officer

tru optik data corp

january 2012 - present

Co-Founder
Chief Technology Officer

speak with me, inc.

january 2005 - present

Co-Founder
Chief Data Officer

count it

march 2017 - present

Co-Founder
Advisor

carnegie mellon university

september 2005 - june 2012

College of Fine Arts Systems Administrator, Webmaster
School of Drama Webmaster
School of Music Systems Administrator, Webmaster

AWARDS AND RECOGNITION [EDUCATION]

the hotchkiss school

Digital Photography Award, 1999/2000

the green vale school

The Derby Medal, 1997

math counts

Regional/Individual, 2nd place, 1996
Team, 1st place, 1996
State, honorable mention, 1996

AWARDS AND RECOGNITION [MEDIA]

the paper

founder, producer, editor

Silver Medalist, Columbia Scholastic Press Association 2004

max's big adventure

producer, editor, animator

Best in State, Connecticut Scholastic Art Awards 2000

mannequin's mirror

designer

Best in State, Honorable National Mention
Connecticut Scholastic Art Awards 1998

COURSEWORK

carnegie mellon university

pittsburgh, pennsylvania

09101	Intro to Experimental Chemistry	24384	Entertainment Engineering
09105	Intro to Modern Chemistry	24401	Engineering Analysis
15100	Intro to Java Programming	24441	Engineering Design
15123	Effective Programming in C/Unix	27100	Materials Engineering
18290	Signals and Systems	33106	Physics 1
21131	Analysis 1	33107	Physics 2
21132	Analysis 2	39245	Rapid Prototyping Design
21259	Calculus in 3-D	48413	Building Acoustics
21260	Differential Equations	54433	Producing for TV and Film
24101	Fundamentals of MechE	57337	Sound Recording
24201	Engineering Graphics	57338	Sound Editing and Production
24221	Thermodynamics 1	57438	Multitrack Recording
24231	Fluid Mechanics	57617	Independent Sound Production
24261	Statics	57847	Electronic and Computer Music
24262	Stress Analysis	70414	Tech-Based Entrepreneurship
24302	Seminar 1	73100	Principles of Economics
24303	Seminar 2	76101	Interpretation and Argument
24311	Numerical Methods	76239	Intro to Film Studies
24321	Thermal Fluids	76339	Advanced Studies in Chinese Cinema
24322	Heat Transfer	79104	Intro to World History
24351	Dynamics	99103	Mac CSW
24352	Dynamic Systems and Control	FM164	Filmmaking 1
24371	Electromechanical Systems	FM215	Video Production 1

new york university

new york, new york

3D Computer Animation and VFX Using Maya