

alexander geis, multimedia engineer

PERSONAL INFORMATION

name Alexander Edward Geis
born September 16, 1981, New York
goal To possess a strong technical background in mathematics, engineering, film, design, and music, as well as the hardware and software knowledge of specialized computer, video, and audio equipment.

CONTACT INFORMATION

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work www.21productions.com

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 Computer Science, Electrical Engineering and Music, 2009-2010

PERFORMANCE

carnegie mellon university	3.21 QPA
gre general mathematics	780
gre general writing	5
ap calculus bc	4
ap chemistry	3
ap physics mechanics	4
ap physics electromagnetism	4
sat2 math iic	790
sat2 physics	720
sat2 chemistry	730

EMPLOYMENT

21 productions, inc. spring 1998 – present	Founder, President and Chief Technical Officer
carnegie mellon university september 2005 - present	College of Fine Arts Systems Administrator, Webmaster Miller Gallery Systems Administrator School of Drama Webmaster School of Music Systems Administrator, Webmaster
deeda, inc. june 2011 - present	Director of Product Development Systems Administrator
speak with me, inc. january 2005 - present	Systems Administrator Head Graphics Designer and Webmaster

AWARDS AND RECOGNITION [EDUCATION]

american invitational mathematics examination	Certificate of Distinction, 2000
college board advanced placement	AP Scholar, 2000 AP Scholar, 1999
the hotchkiss school	The Advanced Digital Photography Award, 2000 The Digital Photography Award, 1999
the green vale school	The Derby Medal [overall excellence], 1997 The Marguerite K. Wheeler Award [mathematics], 1997 The John C. Green Award [highest 8th grade GPA], 1996
math counts	Regional, 2nd place, 1996 Individual, 2nd place, 1996 Team, 1st place, 1996 State, honorable mention, 1996

AWARDS AND RECOGNITION [FILM]

johnny montana post production	Best Narrative Feature, Moondance International Film Festival 2006 Soundtrack Grant Award, Moondance International Film Festival 2006 Silver Spotlight Award, Australian International Film Festival 2006 Honorable Mention, Bahamas International Film Festival 2006 Official Selection, San Francisco Indiefest 2006 Official Selection, Newport Beach International Film Festival 2006 Official Selection, Palm Beach International Film Festival 2006 Official Selection, Queens International Film Festival 2006
cold medicine editor, post production	Official Selection, Newport International Film Festival 2005

buffalo dreams post production, mastering	Official Selection, Woodstock Film Festival 2006
american faces editor, post production	Official Selection, The Craic Film Festival 2005
four is enough producer, editor	Official Selection, CMU Film Festival 2004
refoundation producer, editor	Official Selection, CMU Film Festival 2003
pyramus and thisbe producer, editor	Official Selection, CMU Film Festival 2003
bluepocalypse now editor	Best Entertainment Film - New York Film Festival 2001 Official Selection - CMU Film Festival 2001

AWARDS AND RECOGNITION [MEDIA]

the paper producer, editor	Silver Medalist, Columbia Scholastic Press Association 2004
max's big adventure producer, editor	Best in State, Connecticut Scholastic Art Awards 2000
the paper 99 producer, editor	Honorable State Mention, Connecticut Scholastic Art Awards 1999
mannequin's mirror designer	Best in State, Honorable National Mention Connecticut Scholastic Art Awards 1998

COMPANY CLIENTS

carnegie mellon university	School of Design, iTunes Media School of Mechanical Engineering, Diagram Design
aspen music festival	Live Performance Webcasting and Web Design
cabaret pittsburgh	Live Performance Webcasting
marvin hamlisch	Video Production
mw design interactive	Web Video Mastering
newport film festival	Video Mastering
pittsburgh concert society	Live Performance Webcasting and Web Design
vincent laforet	Storage and Systems Administration Consulting

OTHER ACCOMPLISHMENTS

21systems

creator and developer

Specialized Unix/Web Media Package

the multimedia streaming engine

creator and developer

Live Streaming Media Software

the paper

co-creator, head of layout and design, 1998-2000

A Hotchkiss School Publication

the review

head of layout and design, 2000

A Hotchkiss School Publication

SOFTWARE BACKGROUND

languages

AJAX, Applescript, C++, CSS, HTML, Java, Javascript, MySQL, Perl, PHP, Python, Quicktime API, Unix Shell, XML

operating systems

Solaris, IRIX 6.x, SUSE Linux Enterprise Server, Ubuntu Linux, Windows 9x-Vista, Mac OS 7-9.x, Mac OS X.x, Mac OS X.x Server

software

- Adobe After Effects, Design and Web Premium Collections
- Apple Final Cut Studio, Shake, Aperture, Qmaster, Quicktime Streaming Server, Server Administration Suite, Xsan
- Autodesk Maya Complete, Maya Composer
- Ansys, Inc. Ansys
- Avid Elastic Reality, Media Composer, ProTools
- Media 100 Media100i, Media100HD
- Open Source Apache, Awstats, Cacti, Dovecot, Mailman, Postfix
- PTC ProEngineer 2000i2, ProManufacture

HARDWARE BACKGROUND

computer

- Server and workstation maintenance for Macintosh and Linux based computers
- Advanced layer 2/3 networking with ipfw firewall and ifconfig
- Through knowledge of SonicWall hardware
- Shared Area Network (SAN) setup via Apple server solutions
- Bandwidth optimization for high load data networks involving RAID
- Network services including AFP, DHCP, DNS, FTP, NAT, NFS, VPN and WINS
- Internet based networking and remote systems administration

audio/video

- 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 edit, composition, special effects and color grading
- Live and archived web media delivery for desktop and mobile

COURSEWORK

carnegie mellon university
pittsburgh, pennsylvania

09101	Intro to Experimental Chemistry
09105	Intro to Modern Chemistry
15100	Intro to Java Programming
15123	Effective Programming in C and Unix
18290	Signals and Systems
21131	Analysis 1
21132	Analysis 2
21259	Calculus in 3-D
21260	Differential Equations
24101	Fundamentals of Mechanical Engineering
24201	Engineering Graphics
24221	Thermodynamics 1
24231	Fluid Mechanics
24261	Statics
24262	Stress Analysis
24302	Seminar 1
24303	Seminar 2
24311	Numerical Methods
24321	Thermal Fluids
24322	Heat Transfer
24351	Dynamics
24352	Dynamic Systems and Control
24371	Electromechanical Systems
24384	Entertainment Engineering
24401	Engineering Analysis
24441	Engineering Design
27100	Materials Engineering
33106	Physics 1
33107	Physics 2
39245	Rapid Prototyping Design
48413	Building Acoustics
54433	Producing for Television and Film
57337	Sound Recording
57338	Sound Editing and Production
57438	Multitrack Recording
57617	Independent Sound Production
57847	Electronic and Computer Music

carnegie mellon university

continued

70414	Tech-Based Entrepreneurship
73100	Principles of Economics
76101	Interpretation and Argument
76239	Intro to Film Studies
76339	Advanced Studies in Chinese Cinema
79104	Intro to World History
99103	Mac CSW
FM164	Filmmaking 1
FM215	Video Production 1

new york university

new york, new york

3D Computer Animation and Visual Effects Using Maya
