

# 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

**address** 142 Castle Ridge Road; Manhasset, NY 11030  
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**personal** www.ageis.com  
**work** www.21productions.com

## EDUCATION

|                                   |                                                                                                                                                 |
|-----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>the green vale school</b>      | Graduated, June 1997                                                                                                                            |
| <b>the hotchkiss school</b>       | Graduated, June 2000                                                                                                                            |
| <b>new york university</b>        | Select Classes, June 2000                                                                                                                       |
| <b>carnegie mellon university</b> | Bachelor of Science in Mechanical Engineering, May 2004<br>Minor in Film and Digital Imaging, May 2004<br>Masters in Music and Technology, 2011 |

## PERFORMANCE

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

## EMPLOYMENT

**21 productions, inc.**  
spring 1998 – present

Founder, President and Chief Technical Officer

**carnegie mellon university**  
september 2005 - present

School of Music Systems Administrator and Developer  
School of Music Webmaster  
College of Fine Arts Webmaster

**speak with me, inc.**  
september 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

|                                                  |                                                                                                      |
|--------------------------------------------------|------------------------------------------------------------------------------------------------------|
| <b>american faces</b><br>editor, post production | Official Selection, The Craic Film Festival 2005                                                     |
| <b>four is enough</b><br>producer, editor        | Official Selection, CMU Film Festival 2004                                                           |
| <b>refoundation</b><br>producer, editor          | Official Selection, CMU Film Festival 2003                                                           |
| <b>pyramus and thisbe</b><br>producer, editor    | Official Selection, CMU Film Festival 2003                                                           |
| <b>bluepocalypse now</b><br>editor               | Best Entertainment Film - New York Film Festival 2001<br>Official Selection - CMU Film Festival 2001 |

#### AWARDS AND RECOGNITION [MEDIA]

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

#### COMPANY CLIENTS

|                                   |                                                                                                                                                                                   |
|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>carnegie mellon university</b> | College of Engineering, School of Mechanical Engineering<br>College of Fine Arts, School of Art<br>College of Fine Arts, School of Music<br>College of Fine Arts, Media Relations |
| <b>aspen music festival</b>       | Live Performance Webcasting and Web Design                                                                                                                                        |
| <b>cabaret pittsburgh</b>         | Live Performance Webcasting                                                                                                                                                       |
| <b>marvin hamlisch</b>            | Video Production                                                                                                                                                                  |
| <b>mw design interactive</b>      | Web Video Mastering                                                                                                                                                               |
| <b>newport film festival</b>      | Video Mastering                                                                                                                                                                   |
| <b>pittsburgh concert society</b> | Live Performance Webcasting and Web Design                                                                                                                                        |
| <b>vincent laforet</b>            | Systems Administration Consulting                                                                                                                                                 |

## OTHER ACCOMPLISHMENTS

**the multimedia streaming engine** Live Streaming Media Software  
creator and developer

**the paper** A Hotchkiss School Publication  
co-creator, head of layout and design, 1998-2000

**the review** A Hotchkiss School Publication  
head of layout and design, 2000

## 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, Windows 9x-Vista, Mac OS 7-9.x, Mac OS X.x, Mac OS X.x Server

**software**

- Adobe After Effects CS3, Design and Web Premium CS3 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
- Digidesign ProTools HD/LE
- Media 100 Media100i, Media100HD
- Open Source Apache, Awstats, Cacti, Mailman, Postfix
- PTC ProEngineer 2000i2, ProManufacture

## HARDWARE BACKGROUND

**computer**

- Server and workstation maintenance for Macintosh and UNIX-based computers
- Advanced layer 2/3 networking with ipfw firewall and ifconfig
- 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
- Constructing custom media solutions

**audio/video**

- Extensive knowledge in video SD and HD standards, IO, 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
- Live and archived online video and audio Quicktime streaming

## COURSEWORK

**carnegie mellon university**  
pittsburgh, pennsylvania

|       |                                        |
|-------|----------------------------------------|
| 09101 | Intro to Experimental Chemistry        |
| 09105 | Intro to Modern Chemistry              |
| 15100 | Intro to Java Programming              |
| 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               |
| 54433 | Producing for Television and Film      |
| 57337 | Sound Recording                        |
| 57338 | Sound Editing and Production           |
| 57438 | Multitrack Recording                   |
| 57617 | Independent Sound Production           |
| 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