

Education

University of Pennsylvania, School of Engineering and Applied Science; Philadelphia, PA
Bachelor of Science in Engineering; Cumulative GPA: 3.28

Major: Digital Media Design (Interdisciplinary major including courses from the Annenberg School of Communication, the School of Design, and the School of Engineering and Applied Science)

Minors: Fine Arts, Cinema Studies

Relevant Coursework: 3D Computer Modeling; Digital Figure Modeling; Animation; Drawing I & II; Computer Graphics; Digital Imaging; Film Analysis; Film and Video; Marketing; Visual Communication; Programming Languages I & II; Computer Architecture; Algorithms; Cognitive Psychology; Product Design; Children and the Media; Persuasion; Perception

Experience

- **"Dynamic Human Simulation", Senior Design Project, University of Pennsylvania (Spring 2006)**
 - Developed a Maya plugin that enables users to capture dynamic simulation of human movement and reactions to dangerous stunts, based on a set of parameters, for use in character animation
- **Higher Media Productions, Technical Director, Austin, TX (Summer 2005)**
 - Produced visual effects, animation, and additional graphics for the independent film Our Bombs
 - Tasks included modeling, shading, lighting, rigging, animating, working with Maya dynamics, editing, compositing, and solving challenging problems in Maya, After Effects, and Final Cut Pro
 - Recreated the previously produced, award-winning film 5 Heroes of AIDS in Africa in high definition format through a process of precisely matching the original editing and compositing work
- **ACM SIGGRAPH Student Chapter, Animation Department Chair, (2005); Animator (2003 – 2006)**
 - Managed the workflow and progression of the chapter's animation department
 - Contributed modeling, animation, and leadership to a 2-year collaborative group animation project
 - Provided Maya-based 3D graphics demonstrations and tutorials for interested students
- **e-Shore Media, Founder (2003 - Present)**
 - Created and currently manage a website design firm (www.eshoremmedia.com)
 - Formulate and develop websites, Flash animations, and other online content for organizations

Skills

- **3D Computer Modeling:** Highly trained and experienced in modeling both organic and hard-surfaced forms using nurbs, sub-divisions, and polygons (both low and high poly count)
- **Animation:** Experience with 2D and 3D animation, including both realistic and stylized character animation, lip-syncing, and Maya dynamics; trained in the classical principles of animation
- **Shading, Lighting, Rigging, Editing:** Sharp understanding and experience in all areas of the 3D pipeline
- **Fine Arts:** Refined artistic ability and creativity, including more than a decade of training in the areas of drawing, figure-drawing, painting, sculpting, cinematography, and art history
- **Programming:** MEL, OpenGL, C, C++, Java, HTML, PHP; capable of quickly adapting to new languages
- **Software:** Proficient with Maya, After Effects, Photoshop, Illustrator, Flash, Final Cut Pro, Motion, InDesign

Honors

- **Third Place, Computer Graphics World International Student Art Contest, (2005)**
(Prize included a Full-Conference Pass to the 2005 ACM SIGGRAPH Conference and publication of artwork in the April 2005 issue of [Computer Graphics World](#) magazine)
- **Hexagon, Engineering Senior Honor Society, (2005)**
- **Scottsdale Youth of the Year Award, Professional Exchange Club of Scottsdale, (2002)**
- **Chaparral High School Outstanding Student of the Year, Scottsdale Charros, (2001 – 2002)**
- **Caltech Signature Award, (2001)** (for demonstrating creativity and innovation in mathematics and science)
- **Eagle Scout Rank, Boy Scouts of America, (2001)**

Activities

- **UTV13 Television Station, Video Technician, (2002 - 2004); Webmaster, (2004 – 2006)**
 - Operated video recording and playback equipment for a live broadcast TV show Midnight Live
 - Maintained and updated award-winning website and improved the station's online presence
- **The Daily Pennsylvanian, Political Cartoonist, (2002 – 2006)**
- **Penn Solar Racing Team, Web Designer, (2003)**
- **Tau Epsilon Phi Fraternity, Active Member, (2003 – 2006)**