

Justin Kwan

Objective

I seek to further develop my artistic skills at night, refine engineering creativity during the day, and open a production/postproduction company in the future.

Education

Rensselaer Polytechnic Institute Troy, NY

- Major 1: Computer and Systems Engineering
- Major 2: Electronic Media, Art and Communication
- Graduated: December 2006
- GPA: 3.76

Experience

- Graphical: Photoshop, Premiere, Avid Media Composer, Final Cut Pro, Director, Flash
- Technical: C++, Matlab, C#, Visual Basic, HTML, ASP.net

Applicable Classes

- Electronic Media: Media Studio: Audio/video, Intermediate Video, Advanced Video Topics, Exploring Documentary, Video Independent Study, Radio Theory and Practice
- Engineering: Data Structures and Algorithms, Electric Circuits, Signals and Systems, Discrete Time Systems, Communication Systems, Computer Vision, Computer Graphics

Applicable Projects

- Video Documentary: Produced and edited a documentary about a martial artist who founded the style of Zujitsu. Edited in Avid Xpress Pro.
- Video Documentary: Produced and edited a documentary about volunteer firefighters in Brunswick, NY. Edited in Avid Xpress Pro.
- Video Installation: Created an immersive four channel video installation with 5.1 surround sound. Edited in Avid Xpress Pro.
- Image Processing Undergraduate Research Project: Used Matlab as a tool for an independent research project to compare the ability of a feature detection algorithm in high dynamic range images versus low dynamic range images.
- Signal Processing Team Project: Used Matlab to explore techniques for using video data to recognize key presses on a virtual keyboard.

Work Experience

Avid Technology, Software Engineer, February 2007 - Present

- Support the distribution of a high definition video compressor/decompressor software development kit for third parties.
- Debug problems in Avid's video editing software.
- Maintain all Quicktime compressor/decompressor components.
- Implement new features into Quicktime compressor/decompressor components and Avid's video editing software.

SAIC, Engineering Intern, May 2006 - December 2006

- Developed a DXF format CAD parser library in C++ for use with radiometric imaging tools.
- Performed unit testing and completed documentation on the parser.
- Surveyed various CAD formats for possible use with radiometric tools.

89 Editorial, Intern, Summer 2005

- Learned the workings of a commercial postproduction house which uses Avid Media Composer.
- Assisted engineering staff with managing video equipment.
- Operated equipment in the machine room.

Bose Corporation, Flash Designer, December 2003 - March 2004

- Developed a customer needs assessment tool in Macromedia Flash for Bose store employees to use in assisting customers.
- Implemented the tool to contain a database front end, a drawing tool, product selection, and printing abilities.

Bose Corporation, Presentation Technology Intern, Summer 2003

- Developed a customer needs assessment tool in C# on a Tablet PC.
- Designed the system to collect customer information into a database and use tablet drawing capabilities.

Bose Corporation, Presentation Technology Intern, Summer 2002

- Supported other team members in implementing a Bose headset presentation.
- Developed Macromedia Director and Adobe Photoshop projects.
- Assisted with the Production of a DVD used for in-store kiosks.

Bose Corporation, Presentation Technology Intern, Summer 2001

- Developed training tools for demonstration specialists to learn how to engage customers with multimedia tools.
- Used Macromedia Director to create a Product Information Program.