

Mark Andrew Freese

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PROFILE

I am a broadly educated industrial design engineer, with an affinity for multimedia design, software development and project management. I have excellent skills for design & development of rich Internet and desktop applications and keep up-to-date with the latest trends and technologies in this field.

EDUCATION

March 2004 **Delft University of Technology** Delft, ZH
Industrial Design Engineering – Interaction design
Master of Science (ir., MSc)

EXPERIENCE

1998 – 2000 **Speakers** Delft, ZH
Club, pub & restaurant
Management

- Manager during club night
- Ordering stock from the distributor

1999 **Fyzion - International Ideological Workshop** Delft, ZH
Discussing design philosophy, rules and visualise the future
President/Management

- President of the committee
- Arranging housing for guest lecturers
- Location acquisition
- General problem solver

2000 – 2002 **Freelance Graphic & Multimedia work** Delft, ZH
Various
3D visualisation, graphic design, multimedia design & development

During this period I did a number of freelance project. These ranged from posters to 3d visualisations for architecture projects.

- Websites
- Interactive CD's
- Posters/flyers
- Corporate identity
- 3D product & architecture visualisations

2004 – 2008

Kavli Institute of Nanoscience - TUDelft
High Resolution Electron Microscopy
Interaction design & Software development

Delft, ZH

- Design & development of a user-friendly software interface for remote operation of a Transmission Electron Microscope. The focus of this project is on creating a user interface that will give the microscopist the feel that they are working with a Transmission Electron Microscope (TEM). This was done by incorporating a protocol by which microscopist work to achieve their goals. All aspects of the user - microscope interaction were evaluated and the results were used for creating new ideas and ways for interacting with such a complicated scientific instrument.
- Design & development of a web-based portal for scientific collaboration and the facilitation of remote operation of scientific instruments. For the facilitation of remote operation of a Transmission Electron Microscope and other scientific instrumentation a management portal is needed, which provides security, instrument management, project management and communication tools.
- Design & development of a Transmission Electron Microscope control server for facilitating remote operation of the TEM. This server implements two protocols one for microscope control and one for real-time video and data steaming.
- Implementation of a system for remote operation of a Transmission Electron Microscope. Implementation and management of the system server and software architecture.
- Student support for students working on the project or affiliated projects.
- Various small graphic and multi-media design & development projects, e.g. Group website, TV video presentation, instrument reservation system.

2008 – present

EMAT - University of Antwerp
High Resolution Electron Microscopy
Interaction design & Software development

Antwerp, Belgium

- Redesign & development EELSModel website.
- Redesign ESTEEM website.
- Design & development User Interface fitSTEM routines MatLab & C++.
- Concept, design & development Origami c++ desktop application.
- Concept, design & development Origami icons & styling.
- Some adjustments & upgrades to various websites/pages.
- Support & consultancy software and hardware.

DESIGN & DEVELOPMENT SKILLS

Languages	c++, Actionscript 2 & 3, Adobe Air, HTML, Javascript, PHP, tcl/tk, java
Operating systems	Mac OSX, Windows 2000, Windows Server 2003, Windows XP, Unix, DOS
Software	Flash 7/8/CS3, Flex Builder 2/3, Dreamweaver, Photoshop, Illustrator, InDesign, Eclipse, SVN, CVS, Apache, IIS, Mysql, phpMyAdmin, Flash Media Server, Red5 Server, amf-php, MS Office, iWorks, Maya, 3D Studio Max, Swift 3D, AutoCAD, SolidWorks

REFERENCES

Prof. Dr. H.W.Zandbergen

TU Delft – Kavli Institute of Nanoscience – HREM

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