

# Daniel Thom Edwins

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## EDUCATION

### St. Olaf College – Northfield, Minnesota

**Degree** B.A. in Mathematics (to be awarded May 2008)

**GPA** 3.42 (Honors) – 3.73 in major

#### Coursework Accomplishments

- Designed and implemented the data structure for the Academic Contract Explorer—a program under development that helps students manage their major
- Conceptualized and implemented a clustering algorithm with a small group for the Minnesota Intercollegiate Athletic Conference. Will be published in the Midwest Instruction and Computing Symposium (April 11, 2008).
- Analyzed in a group the ethics of the academic department side of the class registration system at St. Olaf

#### Summer Researcher (Summer 2006, Summer 2007, January 2008)

- Developed a segmentation algorithm for use in stereo vision (see below)

### Experience Abroad: Budapest Semesters in Mathematics – Budapest, Hungary (Semester II, 2007)

*The BSM program is an intense, introductory graduate-level mathematics program.*

- Studied Algebraic Geometry, Combinatorics and Number Theory under Hungarian mathematicians
- Traveled across Europe and learned about different cultures

## WORK EXPERIENCE

### Public Relations Director, Student Government Association, St. Olaf College (2007–present) \*

*SGA funds many student organizations and offers programming, so my job is to educate the student body on SGA events.*

- Worked closely with organizations on campus and the other PR Director
- Publicized SGA events and contributed to the branding strategy for SGA
- Provided resources and knowledge for advertising for various organization on campus
- Attended weekly senate, executive committee and bylaws committee meetings

### Student Multimedia Consultant, Multimedia Development Center, St. Olaf College (Summer 2004–present) \*

*The MDC supports students and professors with all of their technology needs.*

- Built and designed the St. Olaf Virtual Tour including a Flash map and QTVRs of St. Olaf buildings
- Created the college Digital Asset Management standards for departments
- Presented at workshops instructing professors and students how to use software (e.g. Photoshop, Flash)
- Designed posters and websites for faculty, staff, students and organizations on campus

### Student Researcher, Computer Science, St. Olaf College (Summer 2006, Summer 2007, January 2008) \*

*These projects were funded by the Howard Hughes Medical Institute to research stereo vision.*

- Worked in a team of four students the first summer and one student the second summer
- Implemented a visual debugger with a hand-segmentation tool which led to first stereo result (2006)
- Conceptualized a segmentation algorithm for stereo vision which led to first fully-automated result (2007)
- Explored different objective functions and algorithms to get better results on test images (2008)

### Web & Technology Consultant, Neuger Communications Group (2004–present) \*

- Worked on designing and implementing various websites for their clients
- Provided tech support and assistance with special projects

### Web Developer, Department of Mathematics, Statistics and Computer Science, St. Olaf College (Fall 2006) \*

*The MSCS Department wanted a website where department professors could easily update the content.*

- Explored different content management systems for the department
- Developed department website into a MediaWiki-based site for easy updating with a St. Olaf template

\* These work experiences were while attending college.

## COMPUTER SKILLS

### Graphic Design/Video

Adobe Photoshop *	10 years
Adobe Illustrator *	8 years
Apple FinalCut Pro	5 years
Adobe InDesign	4 years
Apple Aperture	1 year

### Web Design

Dreamweaver	5 years
Flash	5 years
Web standards	2 years
WordPress	2 years

### Languages/Scripting/Markup

HTML/XHTML *	12 years
CSS *	6 years
PHP	5 years
MySQL	4 years
C/C++ (STL & OpenGL) *	3 years
LaTeX	3 years
Java	2 years
Scheme	2 years
JavaScript	2 years
Processing (Java)	1 year
Markdown	1 year

### Processing/Editing

Microsoft Office	12 years
Emacs *	3 years
TextMate *	2 years

### Productivity

OmniOutliner *	2 years
OmniFocus	0.5 years

### Operating Systems

MacOS X *	6 years
Linux	3 years

\* Advanced user

## ADDITIONAL INFORMATION

### Extra-curricular activities

- Student Government Association (Spring 2006–present)
- St. Olaf Taiko Drumming Group (Fall 2005–Spring 2006, Fall 2007–present)
- Manitou Messenger Staff Photographer (Fall 2006–present)

### Technical Support for Northfield Residents (1999–present)

- Provided technical assistance for all ages in the community
- Troubleshoot mostly Macs, but also Linux, Windows and networking issues
- Assisted residents on web design and web troubleshooting

### Awards

- Honors Day (2007, 2008)
- Best of show and another photo in the 25th Annual Gimse Abroad Photo Contest (2008 – over 600 entries)
- St. Olaf Endowed Scholarship (2007–present)
- St. Olaf Scholarship (2004–present)

### Publications

- Co-authored paper accepted into the Midwest Instruction Computing Symposium: “Sectioning points into fixed-size sections” (2008)

## REFERENCES

*References available upon request.*