

Matthew Trentacoste

Soon-to-be Ph.D. graduate in image processing and computational photography, investigating full-time or contract work on interesting and exciting projects related to photography, video, mobile devices or similar mercenary work.

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Experience

Freelance Developer, 2009-Present

Freelance developer on several projects. Clients include:

Vidigami Media, developing computer vision and artificial intelligence algorithms to automatically determine aesthetic quality of photos, and choose the best looking images from a large set.

Mobify, developing client-side Javascript to retarget desktop websites for improved display on mobile devices, allowing existing website owners to produce mobile websites without a redesign.

Research Engineer, Dolby Canada, 2007-2009

Supported the development of Dolby technology licensed to manufacturers, including the *SIM2 Grand Cinema SOLAR*¹. Developed calibration methods for accurate display of content on high-dynamic range displays, and environment sensing setups for adjusting display color to the viewing environment. Reduced visible artifacts from LED variation by 90%.

¹ <http://www.sim2usa.com/home/us/Grand-Cinema-SOLAR-us>

Principal Software Researcher, Brightside Technologies, 2004-2007

Responsible for the complete design, development, and implementation of a the video processing pipeline for a new LED-backlight display prototype². Developed the GPU-accelerated software used for all demos, including the securing of 2 years worth of investment capital. Responsible for ongoing development and refinement of advanced image-processing algorithms, leading to several patents.

² BrightSide DR37-P

Education

University of British Columbia	Vancouver, BC	PhD, 2011 expected
University of British Columbia	Vancouver, BC	MSc, 2006
Carnegie Mellon University	Pittsburgh, PA	BSc, 2003

Skills

I'll spare you another list of buzzword bingo here. I've been researching and producing computer graphics and image+video software for 8 years, and have used many technologies at some point or other. The projects on my website are much more telling of what I'm familiar with. I'm self-motivated and capable of delivering on tight deadlines.

References furnished upon request.