

BIYEUN M. BUCZYK

3 Ames Street #95, Cambridge, MA 02142 • (617) 500-5454 • biyeun@mit.edu

Education

- o **Massachusetts Institute of Technology**

Bachelor of Science in Physics

June 2010 (expected)

- Special concentration in waves and imaging
- Affiliations: Student Information Processing Board; The Tech; Technique

Relevant Experience

- o **Graham Gordon Ramsay, Photographer**

Web Developer & Designer

June 2009 - August 2009

- Redesigned website to improve the client's commercial image and search engine rank:
<http://www.grahamramsay.com/>
- Increased back-end usability with a simple custom designed content management system
- Integrated jQuery with photograph centered pages to decrease page load time

- o **MIT Student Art Association**

Lead Web Developer & Designer

January 2009 - Present

- Created new website and public image for group: <http://saa.mit.edu/>
- Improved back-end usability by installing the Plone content management system

Photography Instructor

September 2008 - Present

- Lectured 5 classes of up to 8 MIT students in darkroom and photography techniques over the span of one year
- Explained principles behind image formation and camera construction
- Guided students in use of 35 mm to large format 8"x10" cameras and digital SLRs

- o **Akamai Technologies, Development Tools Group**

Software Engineer Intern

June 2008 - August 2008

- Streamlined the user interface of a suite of web applications used by software developers and project managers for tracking software release milestones and displaying project timelines
- Ported existing web applications from PHP to Ruby on Rails

Research Experience

- o **MIT Media Laboratory - Camera Culture**

Undergraduate Researcher in Computational Photography

June 2009 - Present

- Facilitated development of day/night display that trades slow refreshrates for high resolution & ultra low power
- Developed an experimental setup using a femtosecond laser and picosecond camera that images around a corner
- Engineered an imaging setup for looking around corners using ultrasound transducers
- Analyzed experimental data and created figures for publication
- Participated in assembling research papers for CVPR and SIGGRAPH

Volunteer Work

- o **Computers for Uganda Project**

Technical Leader

Summer 2005, 2006, 2007

- Led teams of U.S. high school students through computer lab installations in Ugandan schools
- Created instructional material to aid with future lab setup
- Facilitated launch of computer refurbishment business in Kampala, Uganda, under 2007 MIT PSC Fellowship

Chaperone and Technical Advisor

Summer 2009

- Guided new technical leaders with managing lab installations

Technical Skills

Languages: MATLAB, C/C++, L^AT_EX, Mathematica, XHTML, JavaScript, CSS, PHP, MySQL, Python, Ruby on Rails

Computer and OS: Mac OS X, Debian & Ubuntu Linux, Windows; VMWare; Hardware Troubleshooting

Software: Adobe Photoshop, Adobe Illustrator, Adobe InDesign, Perforce, Git

Projects: Designed and built an 8"x10" view camera

Other: Circuit Design, Machining Experience (Lathe, Mill, Water Jet, Laser Cutter)