BIYEUN M. BUCZYK

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Education

• Massachusetts Institute of Technology

Bachelor of Science in Physics

June 2010 (expected)

- Special concentration in waves and imaging
- Relevant Coursework: 6.815 Advanced Computational Photography; 2.71 Optics; 2.065 Acoustics and Sensing;
 18.06 Linear Algebra; 8.044 Statistical Physics; 8.03 Waves and Vibrations
- Affiliations: Student Information Processing Board; The Tech; Technique

Experience

• MIT Media Laboratory - Camera Culture

Undergraduate Researcher in Computational Photography

June 2009 - May 2010

- Facilitated development of day/night display that trades slow resfreshrates 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

• 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 6 to 8 MIT students and affiliates in darkroom and photography techniques, including Basic Photography and Large and Medium Format Photography 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

Projects

• Construction of Large Format Camera

January 2008 - July 2008

 Designed and built, from scratch, an 8"x10" field camera at the MIT Hobby Shop—everything except the lens (which will be tackled in the future). Website: http://camera.biyeun.com/

Technical Skills

Languages: MATLAB, C/C++, LATEX, 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

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

Fellowships and Awards

• MIT Council for the Arts Grant

Construction of Second Large Format Camera

Spring 2009

- Obtained full funding to construct improved design of first view camera: lighter, more stable, and more compact

• MIT Public Service Center Summer Fellowship

InterConnection Uganda

June 2007 to August 2007 (Kampala, Uganda)

- Facilitated with launch of computer refurbishment business in Kampala, Uganda
- Collaborated with Hon. John Nsambu, Uganda's Minister of State for Information and Communications Technologies (ICT)
- Oversaw and trained a team of four Ugandan technicians in computer refurbishment

Volunteer Work

o Computers for Uganda Project

Technical Leader

Summer 2005, 2006

- Led teams of U.S. high school students through computer lab installations in Ugandan schools
- Created instructional material to aid with future lab setup

Chaperone and Technical Advisor

Summer~2009

- Guided new technical leaders with managing lab installations