

# Eric Charles Mai

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## Profile

Seeking a position where I can use my interdisciplinary education and work experience to improve mobility by implementing creative, technology-based solutions to modern transportation / planning problems.

## Education

*University of California, Berkeley, Berkeley CA*

M.S. in Civil Engineering, Civil Systems Program. Focus on Intelligent Transportation Systems, urban design. December 2009. GPA (weighted): 3.72.

*University of Oklahoma, Norman OK*

B.S. in Civil Engineering, *Summa Cum Laude*. Minors in Mathematics and Religious Studies. May 2007. Overall GPA: 3.95. Major GPA: 3.98. Hours completed: 190. EIT certified.

## Professional Experience

**Project Manager** *Dept. of Civil and Environmental Engineering, UC Berkeley. Feb 2009 – Present*

- Involved in fund-seeking, leadership, planning, and development on a research project to model travelers' behavior with regard to mode choice as it is influenced by real-time information.
- Act as the primary point of contact to government agencies such as MTC and Caltrans.
- Develop and maintain web- and iPhone-based applications for internal and public use (e.g., *BayTripper*, with over 3500 downloads and 400 active users, and *Networked Traveler*).

**Software Development Contractor** *Self-Employed. Feb 2009 - Present*

- Working with various companies on web and iPhone development in the field of transportation.
- Primary developer of iPhone app *Cabulous* which displays cabs on a map in real-time for direct hailing.

**Research Team Leader** *University of Oklahoma, School of CEES (with Dr. Pei). Apr 2005 - Jan 2008*

- Student leader of 15 undergraduate, masters, and PhD students across 7 research projects. Led team meetings, purchased supplies, taught research and professional skills, oversaw and consulted on all projects.
- Lead-Authored one conference paper, co-authored ten conference papers, and co-authored four journal papers on structural engineering and wireless sensor networks. Presented research at conferences.
- Guest lectured for CE 3403: Materials, an upper division class of 41.

**REU Program Leader** *University of Oklahoma, School of CEES (with Dr. Pei). June - Aug 2007*

- Led REU students in a study on obtaining and visualizing nonlinearities using small timber models.
- Made schedules, assigned tasks, taught good research habits, facilitated interdisciplinary teamwork.

**Visiting Research Assistant** *Columbia University, CEEM Dept (with Profs Smyth & Betti). June - Aug 2006*

- Aided in running shaking table tests, worked to understand a theoretical hybrid sensing problem.

**Engineering Intern** *Oklahoma Department of Transportation. May - Aug 2005*

- Oversaw construction acting as a mediator between the state, city, design engineers, and contractors.

## Awards and Scholarships

UC Berkeley CE Departmental Block Grant (2008), Ted A. Kritikos Professorship of Civil Engineering (2006), Oklahoma Department of Transportation / Poe Civil Engineering Scholarship (2005), Owensby Family Civil Engineering Scholarship (2005), National Merit Scholarship (2003), Oklahoma State Regents for Higher Education Scholarship (2003).

## Hobbies and Activities

Writing, recording, and performing music, Graphic design, Web development, DIY electronics and hardware fabrication, Brainstormer Grand Pub Quiz Finalist (2010), Hurricane Katrina relief volunteer (2007)

## Computer Skills

Matlab, SimuLink, LaTeX, HCS2000, AutoCAD, WaterCAD, WatPro, FlowMaster, PHP, MySQL, XML, XHTML, CSS, JavaScript, Objective-C, Flash, Photoshop, Illustrator.