

# ANDREW ALTAMIRANO

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**Education** **Columbia University Fu Foundation School of Engineering & Applied Science** New York, NY  
Bachelor of Science in Civil Engineering May 2012  
Structural Engineering Track, Minor in Architecture  
**Honors:** C. Prescott Davis Scholar (Fall '08 - Present), Dean's List (Spring '11, Fall '10, Spring '10)

## Relevant Coursework:

Structural Analysis	Uncertainty & Risk	Solid Mechanics
Structural Design	Project Management	Experimental Mechanics
Theory of Vibrations	Design of Large-Scale Bridges	Fluid Mechanics
Dynamics & Vibrations	Finite Element Analysis	Computer-Aided Design

**Experience** **Structural Engineering Intern, Blast Group**, Weidlinger Associates Inc Summer 2011

- Analyzed building superstructure response to target blast loads using SDOF models for compliance with UFC & ISC criteria.
- Utilized WINGARD and SDOF models to assess glass curtainwall systems under blast.
- Designed stair bulkhead enclosures to remain intact post-blast for evacuation.
- Reviewed blast reports, shop drawings and steel connections for QA/QC.
- Determined vulnerability of perimeter barriers to vehicular impact.

**Academic Coordinator**, Columbia University New Student Orientation Program Summer 2010

- Worked with university administration on event programming for week-long orientation taking into consideration budgets, available technical & human resources, and university policies.
- Produced site diagrams, and organized logistics for community-building event for all four undergraduate schools, and assisted in creation of event's theme, content and visual media.
- Worked with 150 campus organizations to schedule informational events for 2500 new students.
- Assisted with logistics around scheduling advising appointments for incoming students and coordinated production of individualized academic packets.

**Project Manager**, Columbia Gateway Lab Spring 2009

- Led group of 5 first-year engineering students to design a new playground for the Children's Learning Center, a child daycare center in Harlem.
- Communicated with client on project updates through several on-site visits, and with vendors on product specifications.
- Produced AutoCAD drawings and Maya models of the team's proposed design.
- Managed project development and deadlines and served as primary contact for team advisor.

**Additional** **Freelance Web Developer** 2005 - Present

- Work primarily in vacation rental industry, with a focus on reservation systems and database solutions to manage data and to automate customer and tax reports.
- Created custom management system for Columbia University Sailing Team to manage members and events, track donors, and automate funding campaigns.

## Software

### General

AutoCAD & Revit  
ShapeBuilder  
Matlab, Mathematica  
SAP2000

### Blast

WABLAST  
WINGARD  
CONWEP

### Presentation

MathCAD  
Microsoft Office & Visio  
Autodesk Maya  
Adobe Acrobat Professional

**Affiliations** **National and Chapter Member**, American Society of Civil Engineers 2010 - Present

**Communications Chair**, Columbia University Sailing Team 2009 - Present

**Praetor** (Secretary), Kappa Delta Rho Fraternity, Nu Alpha Chapter 2009 - Present