

ERICA FISCHER

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Current Address:
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EDUCATION	Purdue University, College of Engineering, West Lafayette, IN Major: Civil Engineering, M.S. May 2012	
	Cornell University, College of Engineering, Ithaca, NY Major: Civil and Environmental Engineering, B.S. May 2007	
WORK EXPERIENCE	Purdue University Research Assistant Large-scale composite floor system testing to examine the effects of fire on structural steel connections	October 2010-May 2012
	Murray Engineering <i>Engineer</i> <ul style="list-style-type: none">161st Street Development, Queens, NY: two 9-story towers on a shared parking garage; performed lateral analysis on masonry walls for both earthquake and wind loads; performed gravity analysis on steel framed parking garage for transfer loads into foundation.130 W. 12th Street: performed extensive analysis on existing roof to determine additional capacity for recreational use; surveying of building to determine existing structure; reframing of elevator core to accommodate elevator enlargement as well as elevator servicing additional floors33 Spring Street, New York, NY: created plans for emergency shoring procedure as per NYC Department of Buildings; inspected shoring placement throughout building for structural stability; examine surrounding buildings for effects on party walls.799 Park Avenue, New York, NY: designed new framing for new stair opening in floor and analyzed existing framing for stair infill; designed and detailed stair stringers, tread design and attachments.	August 2009-August 2010
	AIDG - HAITI <i>Volunteer Structural Engineer</i> <ul style="list-style-type: none">(2) 1 week shifts in Haiti to inspect buildings as per ATC-20 (Port-au-Prince & Leogane)Creation of sketches to hand out to home owners to help rebuild houses properlyCreation of Masonry Training Program for Haitian Masons	March 2010-April 2010
	DeSimone Consulting Engineers <i>Engineer</i> <ul style="list-style-type: none">50 West Street, New York, NY: 750-foot tall reinforced concrete residential structure; performed multiple analyses for high modulus concrete including lateral analysis; performed design iterations to determine need for a liquid mass damper.161 Maiden Lane, New York, NY: 554-foot reinforced concrete tower with 15:1 aspect ratio; performed multiple analyses for options of preliminary design including lateral analysis; 300,000 sf, architect Coop HimmelblauDavid H. Koch Theater Renovation at Lincoln Center, New York, NY: designed expansion of steel-framed orchestra pit incorporating masonry bearing walls and light gage raised floors in concrete building; analyzed hung steel gridiron over stage and existing 73 foot long roof truss joists for new theater and mechanical equipment; designed new box office light box framing using UnistrutFormer Queens Family Courthouse: Queens, NY: 12-story mixed use steel and masonry building, 453,000 sf, incorporated existing 1928 building façade into new structure for historical preservationTaught portion of in-house seminar on recent changes to NYC Building Code	July 2007-June 2009
OTHER EXPERIENCE	Earthquake Engineering Research Institute (EERI) – Purdue University <i>Secretary, Student Leadership Council (National Organization)</i>	August 2010-Present
	ADIHA (Association des Ingenieurs Haitens & Americans) <i>Task Force Committee</i>	May 2010 - Present
	Structural Engineers Association of New York (SEAoNY) <i>Committee Chair</i> <ul style="list-style-type: none">Programs Committee, Sponsorship Committee, University Outreach Committee	April 2009-October 2010
TRAINING	California Emergency Management Agency <i>Safety Assessment Program</i>	March 2011
	ATC-20 Certification	February 2010
	RESTORE Training <ul style="list-style-type: none">Two-Semester Course on Masonry ConservationCase studies worldwide: New York, Puerto Rico, United Kingdom, etc.	November 2009 – May 2010
PUBLICATIONS	THISisCarpentry.com, Building Inspections in Haiti	May 2010
AWARDS	NSF Graduate REACH Fellowship Program	August 2010-May 2012
	AISC/Associated Steel Erectors of Chicago Scholarship	January 2011