

# Shi Liu

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OBJECTIVE	To obtain an entry level structural engineering position in an engineering company				
EDUCATION	<i>M.S. in Civil Engineering (Structural)</i> <b>The Pennsylvania State University</b> Anticipated Graduation: 05/11 GPA: 3.49/4.00		<i>B.S. in Civil Engineering</i> <b>Beijing University of Technology (BJUT), Beijing, China</b> Graduated: 07/09 GPA: 3.48/4.00		
CERTIFICATION	Engineer In Training, E.I.T.		NAUI Scuba Diving Certification		
RELEVANT COURSES	Earthquake Design Advanced Steel Structure Design Steel Connection Design		Bridge Engineering Finite Element Method Indeterminate Structure Analysis		
ACADEMIC EXPERIENCE	<b>Reducing Overturning Force in Tall Building using Tuned Mass Damper</b> <span style="float: right;"><i>01/11-present</i></span> <ul style="list-style-type: none"><li>Designed a 3-story an 9-story steel moment frames in Los Angeles Region.</li><li>Designed tuned mass dampers on the top of the buildings and studied the performance of buildings.</li></ul> <b>Sensitivity of Seismic Floor Isolation System in Multi-Story Structures</b> <span style="float: right;"><i>01/10-present</i></span> <ul style="list-style-type: none"><li>Designed a 3-story Steel Frame with Steel Plate Shear Walls in Los Angeles region.</li><li>Used AutoCAD to prepare the rough layout and sketches and perform calculations</li><li>Designed a Floor Isolation System for the building to reduce the acceleration of protected equipments.</li><li>Studied linear and nonlinear performance of FIS in a 9-story building under earthquakes in <i>Opensees</i>.</li></ul> <b>Structural Design and Seismic Performance of Precast Prestressed Concrete Structure</b> <span style="float: right;"><i>01/09-06/09</i></span> <ul style="list-style-type: none"><li>Performed structural design calculation for an extension of the building in Beijing.</li><li>Modeled this extension of a 4-story precast prestressed commercial structure in <i>Sap2000</i>.</li><li>Provided structural drawings and specifications for the design.</li></ul>				
WORKING EXPERIENCE	<b>Civil Engineering Department, PSU</b> <span style="float: right;"><i>08/10-present</i></span> <i>CE 341 Grader for Concrete Design</i> <ul style="list-style-type: none"><li>Inspected homework calculations for design concrete components; graded homework and in-class assignments weekly for 60 students; organized grades statistics in Excel.</li></ul> <b>Beijing Olympic Broadcasting Co., Ltd., Beijing, China</b> <span style="float: right;"><i>06/08-08/08</i></span> <i>Full-time CCR Operator</i> <ul style="list-style-type: none"><li>Recruited as 1 of 600 students in Beijing to join this company for Olympic broadcasting, and 1 of 20 students working in the "Bird Nest" stadium.</li><li>Led a team of 10 people to set up all audio control units in the venue before everyday game; provided the technical support to commentators from 195 countries, including NBC, during the game.</li></ul> <b>Beijing Institute Of Architecture Design., Beijing, China</b> <span style="float: right;"><i>06/07-08/07</i></span> <i>Structures Intern</i> <ul style="list-style-type: none"><li>Performed routine tasks under close supervision of chief structural engineer using Chinese standards.</li><li>Designed structural components and modified existing designs for a 20-story condo in west Beijing for <i>China Telecommunications Corporation</i>.</li><li>Used PKPM and AutoCAD to perform calculations and prepared original rough layouts and sketches to present design proposal.</li></ul>				
HONORS& ACTIVITIES	<b>Outstanding Undergraduate of Beijing(2009) Undergraduate honor student(2008) Dean's list</b> Excellent Prize in <i>8th Beijing Structure Design Competition (Regional Level)</i>				
MEMBERSHIP	Earthquake Engineering Research Institute American Society of Civil Engineering		American Institute of Steel Construction PSU Nittany Divers SCUBA Club		
COMPUTER SKILLS	Sap2000 ETABS	AutoCAD Sketch up	Revit structure RISA-3D	MathCAD Matlab	OpenSees Excel
OTHER SKILLS	Fluent in Mandarin Chinese, Familiar with Chinese Building Codes especially seismic provision. <i>Reference Provided Upon Request and Willing to Relocate</i>				