

# Stella Viktoria Schieffer

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<b>Education</b>	<b>Eidgenössische Technische Hochschule Zürich</b> Candidate for MSc in Civil Engineering, degree expected 06/2011 Specializations: Construction & Traffic <b>Massachusetts Institute of Technology</b> BSc in Civil and Environmental Engineering, 2009. GPA: 4.4/5.0 <b>Harvard Kennedy School of Government</b> Coursework: Management of Development Assistance Projects <b>University of Cambridge</b> Cambridge-MIT Exchange program within the Civil Engineering Department <b>Schule Schloss Salem</b> International Baccalaureate: 38 points	<b>Zurich, Switzerland</b> 09/2009-present <b>Cambridge, MA</b> 09/2008-05/2009 08/2005-05/2007 <b>Cambridge, MA</b> 09/2008-12/2008 <b>Cambridge, UK</b> 09/2007-06/2008 <b>Salem, Germany</b> 08/2002-05/2005
<b>Industry Experience</b>	<b>Wolff &amp; Mueller</b> <b>Assistant Project Manager on the two sites “<i>Topography of Terror</i>” &amp; the <i>German ministry of environment</i></b> ◦ Documentation of the construction progress ◦ Preparation of technical drawings ◦ Quantitative and qualitative checks of construction works on site ◦ Generation of price comparisons considering different materials, techniques & suppliers ◦ Assistance to the accountant using <i>Arriba</i> <b>Kirloskar Oil Engines Ltd.</b> <b>Change Management Consultant</b> ◦ Analyses of Supply Chain Management, Inventory & Preparedness for Change in cooperation with Satyam and Bain&Co. to meet target to quadruple profits by 2012 <b>Priaton GmbH</b> <b>Chemical Assistant</b> ◦ Mass-production of synthesized chemical compounds for world wide export ◦ Design of a multicomponent-reaction library to be used in drug design ◦ Final product quality analysis & packing	<b>Berlin, Germany</b> 06/2008-08/2008 <b>Pune, India</b> 06/2007-08/2007 <b>Tutzing, Germany</b> 06/2006-08/2006
<b>Research Experience</b>	<b>ETH Zürich ◦ Block Research Group ◦ Prof. Philippe Block</b> Thrust Network Analysis of vaulted masonry staircases <b>National Building Research Institute ◦ Technion, Israel Institute of Technology</b> ◦ <b>Prof. Rachel Becker</b> Literature survey on phase change materials (PCM) in residential building applications with emphasis on the Mediterranean climate ◦ Evaluation of PCM wallboards in multi-family Israeli residential housing units ◦ Building climate simulations in Energy Plus <b>MIT School of Architecture ◦ Building Technology Group ◦ Prof. John Ochsendorf</b> Structural integrity of antique, non-reinforced masonry dome structures ◦ Planning & Modelling of 3D dome structures in Rhino3D ◦ Construction of physical dome model using a 3D-printer ◦ Development of experimental methods to simulate earth settlements and seismic impacts <b>MIT School of Civil Engineering ◦ Laboratory for Atomistic &amp; Molecular Mechanics ◦ Prof. Markus Buehler</b> Atomistic simulation of brittle-to-ductile transition of silicon ◦ Simulation of fracture mechanisms under varying stress & temperature conditions using GRASP applying the ReaxFF reactive force field model	<b>Zürich, Switzerland</b> 01/2010-present <b>Haifa, Israel</b> 06/2009-08/2009 <b>Cambridge, MA</b> 09/2008-06/2009 <b>Cambridge, MA</b> 09/2008-08/2009

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<b>Leadership</b>	<b>Civil Engineer Graduate Trip 2011</b> <b>Webmaster &amp; Program Planning</b> for the annual graduate trip	Zürich, Switzerland 05/2010-present
	<b>The Tech – MIT’s Student Newspaper</b> <b>Opinion Staff</b> ◦ Articles on sustainability, environmental reforms, international education & campus issues	Cambridge, MA 09/2008-05/2009
	<b>Sustainability@MIT</b> <b>Executive Board Member</b> ◦ Representation of MIT at the international conference <i>World Student Community for Sustainable Development</i> in Zurich, Switzerland ◦ Focus on raising awareness, education and catalyzing behavioral & technological	Cambridge, MA 09/2008-05/2009
	<b>MIT’s Civil and Environmental Engineering Students’ Association (CEESA)</b> <b>Social Chair</b> ◦ Planning, organization & advertisement of regular study breaks, dinners & talks for the undergraduate and graduate community	Cambridge, MA 01/2007-05/2007
	<b>MIT’s International Students Association</b> <b>Vice President</b> ◦ Continuous organization of events to connect MIT’s 3000 international students delegating publicity, event logistics ◦ Publicity increase through expansion and clearer organizational structure of the Board	Cambridge, MA 03/2006-05/2007
	<b>European Career Fair, Boston, 2007</b> <b>Head of Promotion and Marketing</b> ◦ Direction of the European Career Fair’s promotion throughout North American universities within a team of graduate students of the Boston area ◦ Contact person for German international companies to encourage participation in the Fair increasing overall company participation by 70% ◦ Recognition through MIT’s annual “Outstanding Event Award” from Student Leader Awards	Cambridge, MA 09/2006-05/2007
<b>Awards</b>	<b>Excellence Scholarship &amp; Opportunities Programme</b> ◦ Merit-based scholarship awarded by ETH Zurich to cover study and living costs for excellent Master students, support of an extracurricular research project of student’s choice	Zurich, Switzerland 2009
	<b>MIT’s Emerson Music scholarship</b> ◦ Development of musical skills with paid instrumental lessons as one of 50 recipients	Cambridge, MA 2005
	<b>Elisabeth-Meurer Foundation</b> ◦ First recipient to be accepted in the foundation to receive a full scholarship to MIT	Germany 2005
	<b>Duke of Edinburgh Gold award</b> ◦ For extraordinary achievements in academics, culture, outdoor and community	Germany 2005
	<b>“Great Salem Medal”</b> ◦ Traditional honor for exceptional seniors active in academics, culture & community service	Salem, Germany 2005
	<b>International and German national music competitions</b> ◦ Annual 1. prizes in the categories solo and ensemble	Germany 2000-2004
<b>Publications</b>	<b>Dipanjan Sen, Stella Schieffer, Christian Thaulow and Markus J. Buehler.</b> <i>Atomistic Study of Crack-Tip Cleavage to Dislocation Emission Transition in Silicon Single Crystals.</i> Physical Review Letters Vol. 104. Nr. 23. 2010.	2010
	<b>Schieffer, S. Ochsendorf, J. Furstenu, J. Block, P.</b> <i>Unreinforced Masonry Vaults and Dome Structures - Theory and Practice.</i> Poster Presentation: Alliance for Global Sustainability Conference. Zurich. 24 <sup>th</sup> -27 <sup>th</sup> January 2009.	2009
<b>Skills</b>	Languages: German (native language), English(fluent), French(basic), Spanish (basic), Latin (Latinum) Computer: Windows, Macintosh, Linux, Microsoft Office, Java, Matlab, C#, Rhino3D, PovRay, EnergyPlus	
<b>Interests</b>	Music, Travelling, Reading, Badminton, Art	