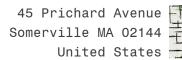
THOMAS SHOULER RESUME

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RICHARD / ARUP

WORK

MAY 2015 - PRESENT

Designer and developer for full stack of web application to automate material optimization of structural systems, and address issues of scale designers encounter when working with larger buildings projects.

- + Solicited global leadership to secure funding for development of project
- + Deployed application amongst staff, to replace more typical spreadsheet-based workflows for design of new 470,000m² international airport in Mexico City

GRASSHOPPER LIBRARY / ARUP

SEP 2014 - PRESENT

Designer and developer of code block library for existing visual algorithmic modeling platform, Grasshopper, which is widely adopted by industry.

- + Building wrappers around APIs of industry software into visual I/O blocks, which staff rapidly assemble into complete algorithms
- + Conducting formal and informal training to grow development competencies within the office

GUGGENHEIM MUSEUM / ARUP ABU DHABI, UAE

AUG 2013 - AUG 2014

Worked collaboratively with staff to incorporate database-centric workflows into design process of 90,000m² museum located on reclaimed land at the tip of Saadiyat Island. Existing spreadsheet methods of working were replaced with more robust, scalable processes.

RAFFLES CITY DEVELOPMENT / ARUP

CHONGQING, CHN

JUN 2012 - JUL 2013

Automated conceptual analysis and design of glazed vault, enclosing $9,000m^2$ contiguous roof structure atop 4 high rise towers in central China. Working closely with the architect, a host of different structural systems were explored parametrically to determine the most appropriate solution for the given context.

ARMADILLO CRÈCHE / CUSD COSMO CITY, RSA

JAN 2011 - MAY 2012

AUG 2011 - MAY 2012

AUG 2007 - MAY 2011

Coordinated structural engineering of 600m^2 early childhood development center in integrated housing development north of Johannesburg. Personally responsible for the execution of the structural design and build scope.

TECHNOLOGY

ACTIVELY USING:

Bash Oasys GSA
Flask Python
Grasshopper MySQL
HTML/CSS Rhinoceros
Javascript SQLAlchemy

JQuery

FAMILIAR WITH

D3.js Polymer
MongoDB Three.js
Adobe Illustrator
Adobe Photoshop
Adobe Indesign

AWARDS

ARUP REAL BIM AWARDS
TECHNOLOGY CATEGORY WINNER
2014

ENR AWARDS 2013

GLOBAL BEST SMALL PROJECT

ARCHITIZER A+ AWARDS 2013
STUDENT DESIGN/BUILD WINNER

ROLBAND FELLOWSHIP 2012
CORNELL UNIVERSITY

KENT FELLOWSHIP 2012
CORNELL UNIVERSITY

EDUCATION

CORNELL UNIVERSITY

MEng, Structural Mechanics and Materials GPA = 3.92

CORNELL UNIVERSITY

BS, Civil and Environmental Engineering GPA = 3.42

ETC

PROFESSIONAL ENGINEER 2014

STATE OF CALIFORNIA

VARSITY CROSS COUNTRY 2008 AND TRACK+FIELD -2011

CORNELL UNIVERSITY