

# SUBMISSIONS | LOW-SCALE BUILDINGS IN CONTEXT

## Project Title

Cascade House

## Address

14 Vesta Drive

## Project Team

Architect: Paul Raff Studio

Project team: Paul Raff, Samantha Scroggie, Scott Barker, Rick Galazowski, Jennifer Ujimoto, Gillian Lazanik, Jean-Philippe Finkelstein, Adam Thom, Jane Son

Landscape: Scott Torrance Landscape Architect Inc.

Structural engineers: Neumann Associates Ltd.

General contractor: T Fijalkowski and Associates

Photography: Steve Tsai, Ben Rahn

## Client

Anonymous



# 2009

 TORONTO Urban Design Awards

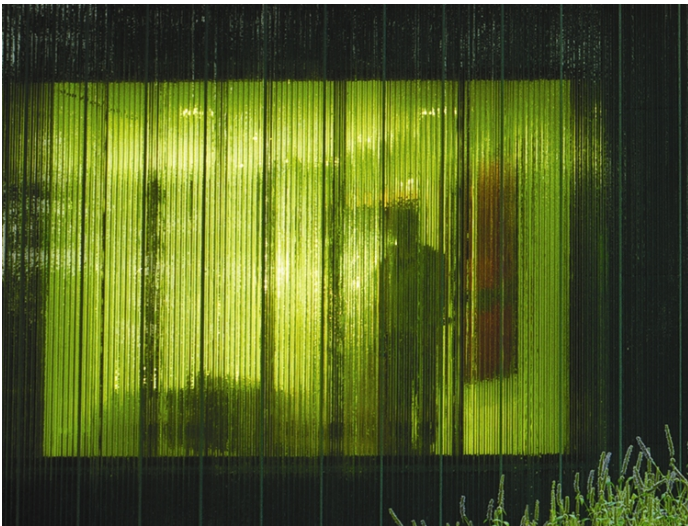
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Cascade House marries environmental sustainability with site-responsive design.

Perched on a gently sloping site amongst mature trees, the house is configured in an L-shape, to open up its South exposure for passive solar energy. Its simple volumes are scaled to match the surrounding 1920's houses. The design takes advantage of the slope to connect and integrate with streetscape and landscape. A sculptural glass privacy screen adds vitality to the street even on the greyest days of winter.

The house combines a high-performance building envelope with passive solar design. This is a highly effective strategy to reduce building energy consumption in Toronto's climate. Expansive glazing along the building's south face allows the low winter sun to penetrate and warm the house. An interior stone wall captures available solar energy which it then radiates as heat at night. The compact, efficient design means less impact on the site, and less energy used.

2009