# CHRISTOPHER JAMES BOTHAM CURRICULUM VITAE

American Institute of Architects — New York City Chapter
Licensed Architect — New York State

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## ACADEMIC

**COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK**
Graduate School of Architecture, Planning And Preservation

MASTER OF ARCHITECTURE | 2016
Teaching Assistant | Visual Studies
Teaching Assistant | Advanced Curtain Wall

**UNIVERSITY OF WISCONSIN AT MILWAUKEE**
School of Architecture & Urban Planning

BS, ARCHITECTURAL STUDIES | 2008
Magna Cum Laude, Honors in the major
Certificate, Urban Planning | 2008

## PROFESSIONAL

**SILVERSTEIN PROPERTIES**
New York office

ARCHITECT, GENERATIVE DESIGN LEAD
MARCH 2020 - PRESENT
Lead generative designer for the firm's innovation group, focused on developing human-centric generative tools for office spaces.

**AI SPACEFACTORY**
New York office

ARCHITECT, HEAD OF COMPUTATIONAL DESIGN
SEPTEMBER 2017 - FEBRUARY 2020
Built computational tools to assist architects throughout the design process, including analysis, simulation, optimization and generative tools. Head of robotics and automation on the winning team of the NASA 3D-printed Habitat Challenge, which included robot programming and tool-path automation.

**PRACTICE FOR ARCHITECTURE AND URBANISM (PAU)**
New York office

ARCHITECTURAL DESIGNER
MAY 2016 - SEPTEMBER 2017
On design team for Penn Station redesign proposal, as well as job captain for multi-family housing project in Newark, NJ. In addition, specialized in computational tools to automate parts of the design process, including tower stacking and zoning analysis.

**KOHN PEDERSON FOX (KPF)**
London office
New York office

COMPUTATIONAL DESIGNER
MAY 2014 - AUGUST 2014
MAY 2015 - AUGUST 2015
Built parametric models and generative algorithms for urban and architectural projects, including analysis, optimization and generative models to automate parts of the design process. In addition, was on the design team for a multi-tower master plan in West London and developed automated unit mix studies throughout the project.

**CANNON DESIGN**
Chicago office

ARCHITECTURAL DESIGNER
AUGUST 2012 - AUGUST 2013
Worked directly under design principal for university and healthcare projects in India, China and Canada

**SKIDMORE, OWINGS & MERRILL (SOM)**
Chicago office

ARCHITECTURAL DESIGNER
AUGUST 2008 - APRIL 2009
MAY 2010 - APRIL 2012
On the design team for multiple large-scale, mixed use tower projects in China and the UAE, as well as corporate interiors projects in Chicago. Worked closely with architects, engineers and planners to coordinate efforts.

## SUPPLEMENTAL

On Verticality Blog

Created and founded a blog to explore verticality and how it affects and has shaped humanity throughout our history. I believe humans have an innate need to escape the surface of the earth, and this has manifested throughout our history.

World Architecture Map (WAM) Website

Created and founded an online building index to map and tag relevant architecture around the world. The goal of the website is to map and tag every relevant building in the world for travel and research purposes.

## SPECIALIZED SKILLS

COMPUTATIONAL DESIGN EXPERT

Generative tool-building and automation workflows, including parametric models, simulations, optimizations and advanced geometry-handling, with heavy use of integrated Rhinoceros, Grasshopper and Python workflows. I have years of experience working with architects and engineers to develop automated workflows in order to streamline the design process.

ROBOTICS SPECIALIST

Motion programming and tool-path generation for industrial robot arms and large-scale 3D-printing processes, involving integrated robot workflows within the Rhinoceros and Grasshopper ecosystem.