

Kevin Hinz

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kevin@khinz.com

www.kevinhinz.com



WORK EXPERIENCE

May 2018-today. **Praktikant.** EM2N Architekten, Zurich, CH.

- Developing and presenting material design concepts for projects in execution.
- Architectural development, fabrication, model building, rendering, photography & external communication with material suppliers.

Nov 2017-Mar 2018. **Faculty Appointed Researcher.** Université de Montréal.
Dept. of Computer Science and Operations Research, LIGUM.

- Specified equipment, developed safe SOP for new digital fabrication lab.
- Developed experiments for numerical simulations of 3D printed clay.

2011-17. **Research Associate + Project Manager.** Harvard GSD and Wyss Institute:
Material Processes and Systems Group (MaP+S).

- Project lead for the 3D Printed pavilion "Ceramic Morphologies."
- Developed architectural prototypes with Wyss Institute-AMT technologies.
- Exhibition research, design and construction (multiple).
- Experiment set up for scientific documentation.
- Lead author for peer reviewed journal publication,
-supporting author (additional publications).

2011-16. **Fabrication Lab TA.** Harvard GSD. CNC, Robotics, Wood Shop.

- Student and Faculty instruction for production of CNC cut models.
- Component and technical design for equipment in the GSD fabrication lab.
- Survey & advise safe operation of all shop tools and CNC equipment.

2016. **Instructor. Rob|Arch 2016,** Sydney, Australia.

Conference Workshop: 'Interactive 3D Printing.'

- Support (material preparation, machine setup, technical) and documentation for interactive 3D printed ceramics workshop.

2013-16. **Design + Fabrication Consultant.** Harvard GSD.

Building Services and Exhibitions Department.

- Specified and designed replacement building components for facility services.
- Developed SOP documents and project schedule for employee rotations.
- Specified and managed procedures for the CNC production of custom exhibition components.

2013-current, **Owning Partner.** Arker Configuration, Milwaukee, WI, US.

2006-10. **Lead Editor and Graphic Designer.** NEXT.cc, Milwaukee, WI, US.

1996-2010. **Independent Contractor.** Somerset KY, US.

- Established client relationships, design proposals, construction estimates & project execution.
- Determined and Managed employee and subcontractor schedules, material deliveries, and custom fabrication for residential and light commercial building construction.

CORE COMPETENCIES

DIGITAL

Adobe Creative Suite:

Dreamweaver

Indesign

Illustrator

Photoshop

Premier Pro

AutoCAD, Vectorworks,

Microstation,

Rhinoceros / Grasshopper / Vray,

Mastercam / Robot Master.

FABRICATION + DESIGN

Prototype development

CNC programing and tooling

GCode/Rapid Code

Machining - Tooling

Component design

Form + Mould design

TRADE SKILLS

Mechanic / Machinist

CNC Operation

Tin smith / metal work

Site survey / General construction

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EDUCATION

Harvard University Graduate School of Design.

Master in Architecture. 2016: *5-Axis Additive Manufacturing for Architecture*

*Thesis with Distinction, looking at 3D printed ceramic components as applicable for industry and architecture.

University of Wisconsin-Milwaukee.

Bachelor of Science, Architectural Studies. 2010.

Summa Cum Laude, School of Architecture and Urban Planning (SARUP).

University Honors College: Honors Degree.

*Advanced placement program focusing on developing effective communication and writing strategies.

PUBLICATIONS

Z. Seibold, K. Hinz, J. Luis Garcia del Castillo, N. Martinez Alonso, S. Mhatre, M. Bechthold. "Ceramic Morphologies: Precision and Control in Paste-Based Additive Manufacturing." Accepted for: *Re/calibration: On Imprecision and Infidelity*. Proceedings of *Re/calibration: On Imprecision and Infidelity*, Mexico City (accepted 2018).

*Hinz, K., J. Alvarenga, P. Kim, D. Park, J. Aizenberg, and M. Bechthold. "Pneumatically Adaptive Light Modulation System (PALMS) for Buildings." *Materials & Design* 152 (2018): 156-67.

Hinz, K. "Brick Geometries: Characteristics of 5-Axis Tooling for Ceramic 3D Printing". Poster. In *AAG 2016, Advances in Architectural Geometry, Zurich*.

Hinz, K., Jacobson, A., Tak, T. "Armature Surface". Book Chapter. In Menges, Achim (ed.). *Material Performance: Fibrous Tectonics & Architectural Morphology*. Harvard University Graduate School of Design (2016).

Hinz, K. "Material Performances: Fibrous Tectonics". in Asensio Villoria, Leire, ed. *Platform 7*. Harvard University Graduate School of Design (2014).

Hinz, K. "Negotiating Boundaries of Practice". forward in Keane, Mark. *Studio 1032*. University of Wisconsin Milwaukee Press (2013).

Hinz, K. *Grasshopper Annotations*. Verge Domain Publishing, Waunakee, WI. (2010).

EXHIBITIONS

- 2017. "Ceramic Morphologies".
Cevisama 2017. Valencia, Spain.
- 2015. "Chromosomes".
Platform 8. Harvard Graduate School of Design.
- 2014. "Protoceramics".
Cevisama 2015. Valencia, Spain.
- 2014. "Ceramic Shell".
Cevisama 2014. Valencia, Spain.
- 2013 & 2014. "Pneumatic Light Modulation System".
Wyss Institute Retreat. Boston, MA.
- 2013. "Surface Tectonics".
Harvard GSD. Cambridge, MA.
- 2013. "Poplar Perceptions".
Harvard GSD. Cambridge, MA.
- 2010. "Firefly".
Studio Lounge: The Art of Architecture. Milwaukee, WI.
- 2007. "Balancing Style".
Design Within Reach. North American 25 City Tour.

AWARDS AND DISTINCTIONS

- ACADIA Member
- ALivE Research Group, Harvard GSD
- Dean's List, SARUP
- Directed Research Grant.
- FWD Talks Coordinator, Harvard GSD
- Gilman Scholar, US Dept. of State
- Inaugural Student Pavilion Design
Competition Winner, Harvard GSD
- Johnson Foundation Wingspread Fellow
- Marian Drake Breskvar - UWM Scholarship.
- Masters Thesis w/Distinction. Harvard GSD.
- Phi-Kappa-Phi Fellowship Graduate
Study Award
- Student Design Award winner, SARUP

WORK SAMPLES / PORTFOLIO

MArch Thesis:
<http://kevinhinz.com/brickGeometries.html>

Graduate School Work:
<http://kevinhinz.com/portfolio.html>