




# JOSH OATES


## CONTACT

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## SOCIALS

 [@the.architect.cure](https://www.instagram.com/the.architect.cure)

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## BARCELONA | ESP

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08003

## CAPE TOWN | ZA

12 Shoal Creek Crescent  
Paarl  
Cape Town  
7646

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## Where is architecture headed when lines of code begin to shape lines of form?

I'm interested in how architecture can move - not just visually, but through the systems, tools, and materials that shape it. My interests sit at the intersection of digital design, AI, and fabrication, with a focus on workflows that turn ambitious ideas into tangible architecture forms, with intention.

Originally from South Africa and now based in Barcelona, I'm exploring how tools like generative design (ComfyUI), 3D printing, and material experimentation can open up new ways of thinking about form, construction, and sustainability - always through a hands-on, systems-driven lens.

My thesis focuses on bridging the gap between AI-generated imagery and architectural design by developing a modular workflow that translates generative outputs into usable BIM components. The aim is to make these outputs buildable - integrating them into a process that balances creativity, control, and real-world constraints.

Beyond the desk, you'll usually find me running, reading, cooking, or chasing some form of momentum - whether it's in design, training, or life.

Built with intention, driven by curiosity.

"Chance favors the connected mind."

- Steven Johnson, Where Good Ideas Come from.

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EDUCATION

2023 - 2025	<b>Master in Advanced Architecture (MAA02)</b> IAAC - Institute for Advanced Architecture Barcelona Barcelona, Spain
2020 - 2022	<b>Bachelor of Architectural Studies (BAS)</b> University of Cape Town Cape Town, South Africa
2006 - 2019	<b>Schooling</b> Bridge House School Franschhoek, South Africa

LANGUAGES

Speaking /Writing	Proficient <b>English, Afrikaans</b>  Basic Spanish
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EXPERIENCE

2023 April - September	<b>SAOTA</b> Intern Cape Town, South Africa Contributed to design development and visualisation for high-end residential projects. Produced 3D models, presentation materials, and supported design refinement using Revit & Lumion.
2021	<b>A4 Art Foundation</b> Museum Design Competition Cape Town, South Africa Collaborated on conceptual proposals for an arts-focused cultural space.
2020 - Ongoing	<b>BAE   Build Africa Energy</b> In-House Draughtman Cape Town, South Africa Produced technical drawings and documentation for energy-related infrastructure projects.
2018	<b>Louis Phillips Architects</b> Internship Paarl, South Africa Gained exposure to residential architecture and early design phases under the mentorship of senior architects.

PROFESSIONAL QUALITIES

As a Designer	Conceptual Innovation Strategic Thinking & Technological Integration AI & Computational Design Workflows Visual Storytelling & Spatial Narrative BIM Integration & Point Cloud Translation
Attributes	Curios & Driven Detail-Oriented with a Systems Approach Adaptable & Self motivated Strong Verbal & Visual Communicator
Collaborative Skills	Team Oriented Community Focused Reliable & Collaborative in Studio Enviroments

TECHNICAL SKILLS

Parametric  
Modelling



Rhino



Grasshopper



Revit

Digital  
Fabrication



3D Print



CNC Mill



Laser Cut

Visualization



Lumion



Vray



Twin Motion

AI &  
3D  
Reconstruction



CloudCompare



MeshLab



Nerf Studio

Graphic &  
Media



Ps



Id



Pr



Sketchbook



Luma AI



COLMAP

Office &  
Documentation



W



X



P

Scripting



Python



Arduino



IFCOpenShell