



RALF SAADE

Interdisciplinary Computational Designer

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EXPERTISE

Computational & Parametric Design
Facade & Geometry Optimisation
Design Automation & Custom Tooling
Interdisciplinary Collaboration
Material & Environmental Strategies
Visualisation & Visual Storytelling
Experiential & Spatial Systems

SOFTWARE

Rhino3D, Grasshopper, Karamba3D
Python, Blender, V-Ray, Enscape,
AutoCAD, Unreal Engine,
TouchDesigner, Adobe Suite,
Ableton, Logic Pro X
AI tools (Runway ML, Claude,
Gemini, Lovable, etc)

DISTINCTIONS

- High distinctions: Design Make Live, Design Practice 1 & 3, Professional Practice, and Strategic Project Management
- Bartlett Summer Show Selection (2020-2022)

BEYOND THE STUDIO

- Fundraising Initiatives (Race Against Hunger, London-Brighton Ride)
- Volunteering (Migrateful)
- Independent Event Production
- Spotify Playlists Awards

LANGUAGES

- English
- French
- Arabic
- German (intro)



Linkedin: [🔗](#)



+44 7414946505 [🔗](#)



ralf.g.saade@gmail.com [🔗](#)

Computational designer with over three years in practice, working at the intersection of architecture, engineering and emerging technology.

My MEng (UCL Bartlett) gives me a structural and environmental foundation that I bring to parametric design, design automation, and custom tooling - turning complex briefs into buildable, performance-driven solutions. Most energised in R&D and innovation-driven environments where computational rigour meets experimentation.

EDUCATION

MEng Engineering & Architectural Design, First Class Honours [🔗](#)

London
2018 - 2022

University College London (UCL) - Bartlett School of Architecture

Accredited: RIBA Part I | IStructE CEng pathway | ICE CEng pathway | CIBSE | JBM

EXPERIENCE

Atelier One - Computational Designer, Architect (Part I) & Engineer

London
Sep 2022 - Present

- **Engineered parametric workflows** to optimise geometry, facades, freeform structures and gridshell form-finding, reducing embodied carbon and cost.
- **Coordinated and managed** across architecture, engineering and environmental disciplines as an interdisciplinary designer, translating between specialisms to keep design intent, performance and buildability aligned from concept through delivery.
- **Led internal innovation**, building custom AI-assisted Rhino/Python tools to automate drawings and standardise workflows, improving speed and consistency.
- **Delivered over 100 multidisciplinary projects** across all RIBA stages, including JPMorgan Chase global HQ (NY), Cercle Odyssey (360° immersive concert installation), Marc Quinn's "Light into Life" (Kew Gardens) and urban.MASS Floc/Duo Rail (Dubai).
- **Advanced sustainability** across schemes; advising on bio-based and environmentally beneficial materials, low-carbon design, masterplan strategies and environmental performance analysis to raise the standard of each project.

Whitby Wood - Civil & Structural Engineering Summer Placement

London
Jun - Jul 2021

- **Led the optimisation** of complex structures in Karamba3D; designed and sized structural elements across multiple projects (incl. Canada Dock Boardwalk by Asif Khan).
- **Engaged in all design stages** through project meetings, building an in-depth understanding of the construction process and interdisciplinary collaboration.

Independent Projects

London
Sep 2019 - Present

- **Flat Renovation** (Chocolate Studios, 2025-26) - Administered the end-to-end design and delivery of a private loft conversion, from concept and detailed design through to on-site completion; procured and managed the main contractor and sub-contractors, coordinating all trades through to handover.
- **Sonic Portraits** (Crypt Gallery & Roundhouse, 2024-25) - Winner of the Audio Canvas competition as part of the Roundhouse Youth Programme, which led me to conceive and produce a 30-minute immersive spatial sound installation translating noise pollution into a 3D composition; subsequently exhibited publicly.
- **Triptych** (Dulwich Picture Gallery, London Festival of Architecture, 2019) - Designed and built a modular interactive acoustic pavilion, transforming a tensioned-wire build into a touch-responsive instrument generating 360° sound and synchronised light.
- **Selected product & strategic work:** Mineral Sounds stone speaker (product design, acoustic performance, brand identity) and Nu-u Lab brand & digital communication strategy supporting business growth.

ADDITIONAL EXPERIENCE

- Fynn Studio - Co-curation of 'Honey' Exhibition for Teoni Hinds | Architectural Social Club - Design Collaboration | "GROW" Bloomsbury Festival - Community contribution | Founder & Host - Bartlett Reconnects Radio Show - UCL Senior & Transition Mentor

References available upon request [🔗](#)