VECTOR & FIELD

CARL WIGART

COMPUTATIONAL DESIGN FOR ARCHITECTURE

GRASSHOPPER | RHINO 3D | REVIT | DYNAMO | GEONODES
EDINBURGH | UK, EUROPE & MIDDLE EAST

Vector & Field gives architectural practices and developers senior computational design capability on demand; parametric systems that hold complex geometry together as a project changes, working directly with your team.

NO HANDOFFS | NO TRANSLATION LAYERS | YOU WORK WITH THE PERSON BUILDING THE SYSTEM

Computational design delivered on projects for NEOM · Red Sea Global · Modon · Al Barari

As architectural designer at 10 Design · South Sabah, Red Sea MLP and Techo Airport at Foster + Partners

BACKGROUND

Studied architecture at The Glasgow School of Art (BArch, DipArch). Over five years as an architectural designer at 10 Design, delivering computational design across large-scale international projects; parametric design systems, geometry optimisation, tender studies and complex architectural geometry. Earlier, architectural assistant at Foster + Partners, London.

WHAT WE DO

01 PARAMETRIC SYSTEMS
Rule-based models that let massing, structure and envelope be tested together; no rebuilding geometry every time something changes.

02 WORKFLOW AUTOMATION
Repetitive model and documentation tasks automated: room numbering across 1,000+ rooms, sheet setup, data checks and schedule generation.

03 COMPLEX GEOMETRY
Organic roof and envelope geometry that stays coordinated and buildable as consultants' input keeps evolving.

THREE WAYS TO START

START HERE
Feasibility Sprint
Three to five days on one live project you choose. Written recommendation plus one working prototype your team keeps. No commitment beyond the engagement.

Fixed fee · 3–5 days

DEFINED OUTCOME
Project Delivery
A specific technical problem, scoped and priced as defined work. Documentation, source files and agreed usage rights included.

Fixed fee · Scoped per project

EMBEDDED EXPERTISE
Embedded Support
Specialist capability inside your project team through the stages where it is needed. Joins meetings, coordinates with consultants, works to programme.

Day rate · Agreed upfront

Weighing whether computational design would help a live project?

The Feasibility Sprint is built for exactly that decision; a fixed-fee look at one live project you choose, with a working prototype your team keeps either way. If the work is already scoped, or you need capability through a whole stage, the other two routes apply. A short conversation will settle which.

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