

Independent, standards-led electrical design advice — *helping owners, builders and developers make the right decisions early, on paper, before they cost time on site.*

CONSULTANCY SERVICES

Specialist electrical design, concept to completion

Ship System Design

Complete marine electrical systems — power generation, distribution, lighting and control across the whole vessel.

Building Electrical Design

Commercial building services — from supply and distribution to lighting, small power and life-safety systems.

Layout & Drawings

2D layout drawings, single-line diagrams and cable schedules, ready for installation and approval.

3D Modelling

Accurate 3D models that visualise routing, coordinate services and reduce clashes before work begins.

SELECTED CAPABILITIES

Experience you can build on

- ◆ BS 7671:2018 (18th Edition) qualified — C&G 2382-22
- ◆ Full electrical design calculations & system modelling (ElectricalOM, Amtech)
- ◆ Schematics, wiring lists, load schedules, cable schedules & BOMs
- ◆ Single-line diagrams & I/O listings
- ◆ 3D modelling & cable routing (Autodesk Inventor, Aveva Tribon, Foran)
- ◆ AutoCAD & WSCAD proficient
- ◆ In-house 3D printing of physical models & prototypes
- ◆ Control & instrumentation — PLC I/O, Profibus & SCADA
- ◆ Marine, defence & industrial projects to classification standards

OUR APPROACH

From brief to buildable design

- 1 Consult & scope**
Understand the vessel or building, its requirements and standards.
- 2 Concept design**
Load assessment, distribution strategy and outline layouts.
- 3 Detailed design**
Full drawings, schematics, schedules and 3D models.
- 4 Support & handover**
Design support through installation, with revisions as needed.

SECTORS WE ADVISE ACROSS

Shipbuilding & marine

Defence

Commercial buildings

Water & utilities

Industrial units

Refit & retrofit

New build & fit-out