

MECHANICAL SYSTEMS DESIGN & ENGINEERING

DOCAN offers a wide range of development, analysis and engineering services for mechanical systems at every stage of the product lifecycle to clients across a broad range of markets and industries.

CORE CAPABILITIES:

- ✓ Finite Element Analysis
- ✓ Computational Fluid Dynamics
- ✓ Manufacturing drawings
- ✓ Systems modelling
- ✓ Prototype concepting
- ✓ Reverse engineering
- ✓ Designing with simulation

✉ INFO@DOCANCO.COM

☎ +44 (0) 1606 212330

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LEARN MORE



HOW WE CAN HELP

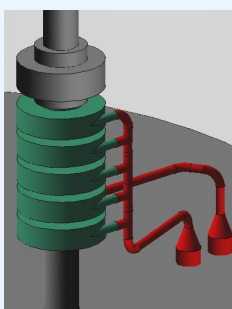
We can provide comprehensive support throughout all product development stages of any mechanical system, no matter the scale or complexity of the project. We assist clients with prototyping, design analysis and mechanical drawings, and can facilitate part manufacturing where required.

Through simulation and analysis, we can identify and solve potential problems at the early design stages to save time and optimise the performance of the final product.

Our services are tailored to your requirements and our expertise covers various engineering fields, including structures, fluid dynamics, thermo-fluids, processes, and chemical engineering.

KEY PROJECTS

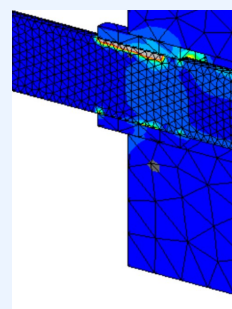
CONCEPTING OF A PROTOTYPE TURBINE



RENEWABLE ENERGY

- ✓ Translating concept ideas into professional 3D CAD renders to secure investor funding
- ✓ Complex 3D geometry models, parametric modelling, animations, renders and technical drawings
- ✓ Development of walk-through simulation to show the internal workings of the system

ANALYSIS & DESIGN FOR RCD COMPONENTS



OIL & GAS

- ✓ Design development of RCD component for drilling application
- ✓ Creation of modified 3D CAD geometry
- ✓ Finite Element Analysis conducted to verify design code compliancy