

SOLIS  
DESIGN



**EXCELLENCE AND  
INNOVATION**  
BUILT INTO  
EVERY DESIGN

**SOLIS IS A UK-BASED ENGINEERING DESIGN  
CONSULTANCY WITH COMPREHENSIVE EXPERIENCE  
ACROSS A RANGE OF ENGINEERING INDUSTRIES:**

- AEROSPACE
- DEFENCE
- AUTOMOTIVE
- AVIONICS
- PRODUCT DESIGN

We are passionate about design and innovation and pride ourselves on our ability to apply our vast and varied experience to every challenge.

With an average experience of 20 years, our team's expertise, includes complete skill sets in mechanical to electrical, stress engineering, surface design and CFD.

Our efficiency and ingenuity in problem-solving gives us satisfaction in our work and gives our clients a competitive service.

We are agile workers, with the ability to adapt to projects of varying scale. We are also ISO 9001:2015 certified, evidencing our robust systems and process-driven approach to risk management.

# OUR FOUNDERS

## FOUNDED BY EXPERTS, FOR EXPERTS

As founders, we are all experienced engineers, each with hands-on expertise of our own specialism and industry sector.

After working together on numerous projects, we realised that we shared vision for a company that would have innovation at its heart, and be surrounded by a sense of community and quality of service – *and Solis was born!*

As a company, we pride ourselves on our commitment to develop and nurture a dedicated local workforce.



### Dan Rödde

DIRECTOR // HEAD OF AUTOMOTIVE & MOTORSPORT

With a successful background in Formula 1, Dan leverages his in-depth knowledge of Motorsport, Aero and Product design to lead innovative solutions to design challenges. He has a proven track record of applying his skills to other disciplines, from design of a single-piece composite body for a road car, to bespoke automated laboratory equipment.



### Phil Worth

DIRECTOR // HEAD OF AEROSPACE

Coming from an impressive career as engineering lead in aircraft interiors, Phil has led dozens of large interior programs comprising of multiple galley complexes, stowages and FRMs. With experience of managing a multi-disciplined team, he has successfully delivered programs for some of the world's major airlines.



### Kristian McDonald

DIRECTOR // HEAD OF AVIONICS

Kristian has a profound wealth of expertise and experience in the bespoke design and installation of avionic systems. Specialising in rotorcraft, he has led projects and teams working on a plethora of aircraft – from Airbus to MD, AugustaWestlands and Boeing:



## OUR SERVICES

### AEROSPACE & DEFENCE

- Aircraft interiors
- Galleys, stowages & front row monuments
- Galley systems: plumbing, ventilation, refrigeration
- Branding panels
- Production support
- Military/defence specific interiors
- Premium monuments, partitions, ceilings
- Aircraft seats

### AUTOMOTIVE

- Composite parts
- Tooling, patterns, jigs
- Wind Tunnel model design
- Surfacing (class A & B)
- Bespoke Systems
- Battery components & enclosures
- Interior trim & mouldings
- Assembly line jigs & tooling
- CFD Analysis
- Aerodynamic Development

### AVIONICS

- Wiring diagrams, ELA
- 3D harness
- Control panel modelling
- EMC compliant
- Camera & mapping integration
- Bespoke modifications
- Bespoke system panels
- EWIS processes and standards

### PRODUCT

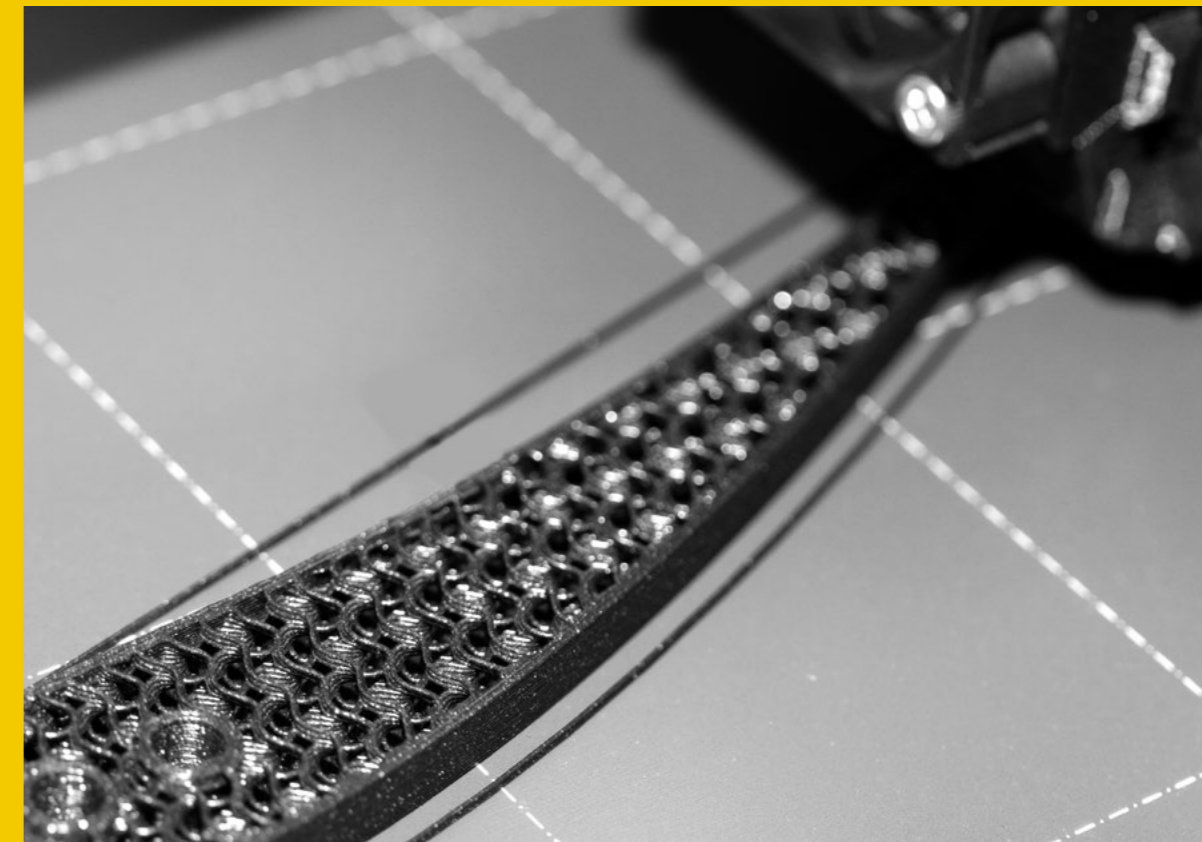
- Concept generation
- Bespoke engineering
- Thermal Analysis
- Stress Analysis
- Rapid prototyping
- In-house 3D printing
- Injection mouldings
- Production development

## IN-HOUSE 3D PRINTING

Our in-house 3D printer allows us to not only provide a prototyping service for clients, but also to sample components throughout the process. This ensures that all potential solutions are explored, tried and tested.

With Solis you get the reassurance that every calculation, specification and consideration has been thoroughly investigated by our specialists.

3D printing forms is part of our end-to-end process, to provide our clients – *and their customers* – with the best end product.





## OUR APPROACH

### EXCELLENCE AND INNOVATION BUILT INTO EVERY DESIGN.

We aim to be a leading industry collaborator, working directly with clients, and via outsourcing partnerships, to support new innovations in design engineering.

Our company model embraces agile working while providing all the security benefits of a larger organisation, evidenced by our ISO 9001:2015 certification. This allows us to scale up or down as required to support business and project demands.

Our approach is tried and tested to ensure that our clients benefit from:

### A COMMITTED TEAM

A committed and experienced team of mechanical and electrical engineers, with established networks to recruit quickly if needed.

Teamwork is important in Solis and our lead engineers have worked together for decades as a unified cohesive team.

### COMPETITIVE RATES

Rates are matched to existing recruitment solutions, leading to less overheads for our clients' businesses.

Solis can supplement your existing team with experienced consultants or take on entire fixed-cost design projects.



### TURNKEY SOLUTIONS

Our proven and confident approach can be scaled up or down as required.

Our unique set-up allows us to take on fast-track projects at short notice, with no minimum contract value or duration.

Solis is reactive, agile and efficient to meet clients' resource demands.

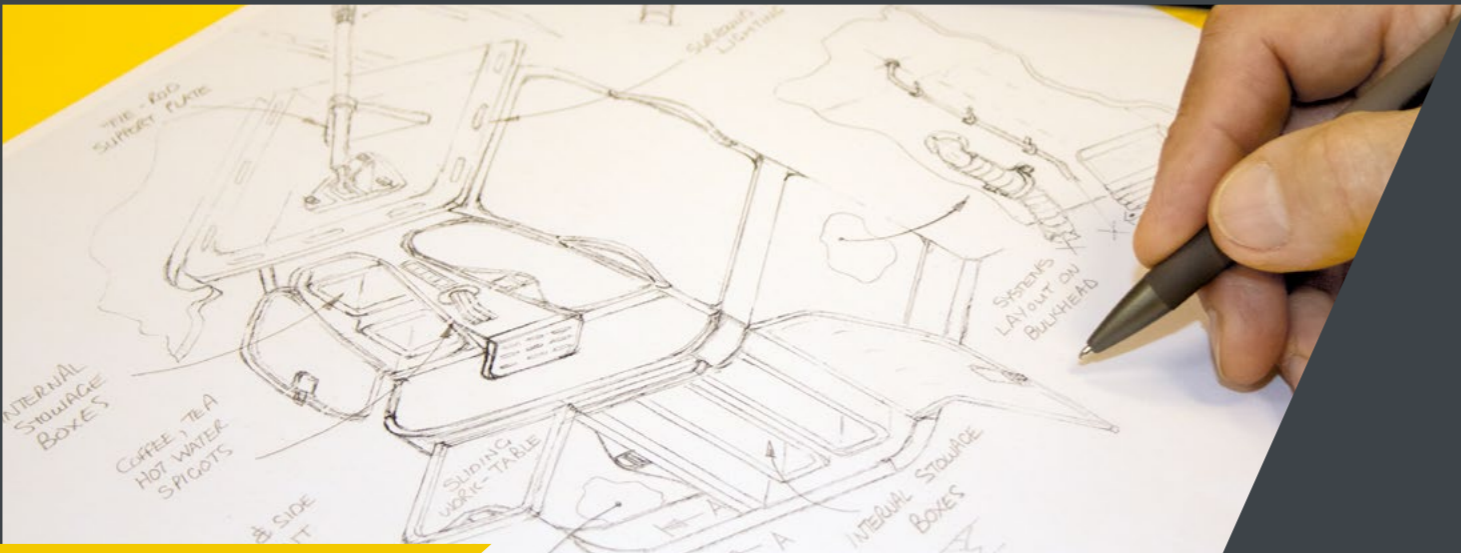
### EXPERIENCE & KNOWLEDGE

Our experienced team boasts engineers from different industries with diverse skill-sets.

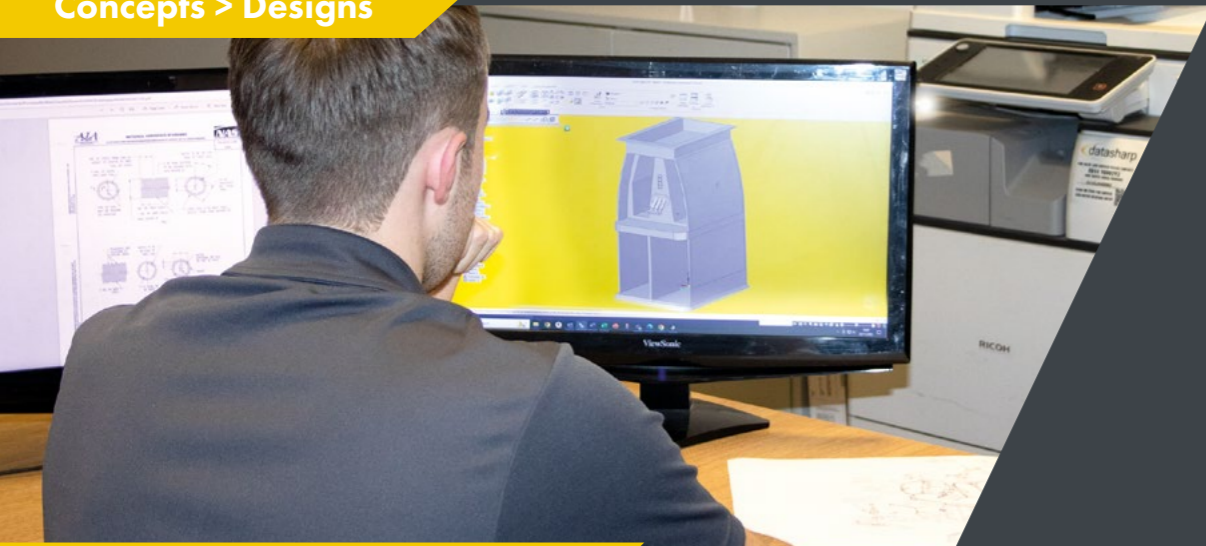
This gives Solis a uniquely broad range of knowledge that is key to delivering successful and varied projects.



# PROVEN PROCESSES



Concepts > Designs



Specifications > Prototypes



Our processes are tried and tested, to ensure that our clients get the best service and the highest standards of work.

Our founders and senior engineers lead our dynamic workforce through each aspect of the project, from initial idea concepts through to final delivery and testing, including prototyping.

## When working with Solis, you can look forward to:

COLLABORATION // TRUST // TRANSPARENCY



One focal point and leader to streamline communication.



Flexibility - whether you need one engineer or a dozen, Solis has the right team available that can be scaled up or down on demand.



Regular status reports on timelines, progress, risk management and potential customer changes.



A secure IT infrastructure (including encrypted cloud-based integration options) and process for data security.



A trustworthy team who are used to working with confidential information, are all DBS and BPSS checked.



Clear payment schedules. We work with clients to keep budgets on-track either via monthly invoicing, or payment instalments at agreed milestones.



On-site production support wherever and whenever required.

# WHY WORK WITH US?

## EXPERIENCED TEAM

PROFESSIONALS  
WITH THE  
RIGHT SKILL SETS

## COST EFFECTIVE

Rates that match  
existing solutions,  
but with reduced  
overheads

## HARDWARE & SOFTWARE PROVIDED

Providing you with cost  
savings and quick  
project set-up

## COHESIVE TEAM

Consistent points of contact  
and team leaders, to drive  
efficiency while utilising  
expert knowledge.

## FULLY SUPPORTIVE

RESPONSIVE  
ON-SITE AND  
OFF-SITE SERVICES

## FIXED PRICE OPTIONS

Flexible billing  
options to suit  
your needs

## QUICK PROJECTS

Able to facilitate  
quick project  
turnarounds, as  
well as longer-term  
contracts.

## SOFTWARE SKILLS

AutoCAD, Solid Edge  
Solid works, NX, Inventor,  
Femap/Nastran/Patran,  
Catia v5/v6, Mathcad

## RELIABLE

100%  
SUCCESS RATE  
FOR DELIVERING  
PROJECTS ON TIME  
AND ON BUDGET

# INDUSTRY SECTORS

Our portfolio boasts an impressive range of industry outputs, including for some of the most established Automotive and Aerospace sectors in the world.

We adapt and apply our design principles to new scenarios, to help brands lead the way on innovations across different sectors.

Being at the forefront of new challenges drives us and fuels our creative minds!

## Sectors we've recently delivered on:

### AUTOMOTIVE & MOTORSPORT

CLASSIC CAR REPRODUCTIONS

HYPER CARS

LUXURY ROAD CARS

FORMULA ONE

LE MANS SERIES CARS

GARAGE & PIT WALL EQUIPMENT

MOTORSPORT SETUP EQUIPMENT

### PRODUCT

CYCLING EQUIPMENT & SENSORS

LABORATORY EQUIPMENT

RENEWABLE ENERGY

### AEROSPACE & DEFENCE

AIRBUS AIRCRAFT:  
319, 320, 321, 330, 340, 350, 380

BOEING AIRCRAFT:  
737, 757, 747, 777

ROTORCRAFT:  
H135, H145, MD902, AW169,  
CH-47, BK117

MILITARY AIRCRAFT

DEFENCE EQUIPMENT



# OUR CLIENTS

We are proud to have worked with a number of organisations and are trusted by globally recognised industry leaders.

We collaborate with brands across multiple sectors, including world-class F1 clients, to leading aviation and defence firms.

We see our clients as partners. Our dedication to high standards and flexible approaches help us to work with clients, and not just for them, ensuring a smooth journey to the successful outcome.



AND WORLD-LEADING F1 CLIENTS

*This list is not exhaustive, due to the nature of our confidential work*

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BEING IN SUCH A STRONG POSITION ON A PROJECT, WHILE GOING INTO MILESTONE MEETINGS, IS TESTAMENT TO THE DEDICATION FROM THE SOLIS TEAM"

AEROSPACE INTERIOR COMPANY

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SOLIS OPERATES LESS LIKE CONTRACTORS AND MORE LIKE MEMBERS OF OUR OWN TEAM"

LEADING F1 COMPANY

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USING SOLIS WAS THE BEST DECISION WE MADE - VERY SATISFIED WITH THE WORK, ORGANISATION, PLANNING AND EXECUTION"

AEROSPACE CLIENT

FINDING INSPIRATION IN EVERY TURN



