

Our team

KIERON SALTER (Managing Director) background is as a mechanical engineer with more than 25 years' experience including at the highest level of motorsport. Prior to setting up KWSP and K W Motorsport (KWM) he was Head of Special Projects and Chief Designer for Touring Car programmes at Reynard Motorsport. Since forming KWM in 2003, Kieron has led Design & Engineering for three consecutive LMP Le Mans winners. Kieron has overall accountability of all functional areas of KWSP and KWM.

STUART BANYARD (Head of Advanced Manufacturing) Stuart has over 20 years' experience as a manufacturing engineer across a variety of sectors. His expertise spans all areas of additive ('3D printing') and composite manufacturing process for clients in motorsport, automotive, defence, marine and aerospace. Stuart is responsible for delivery of KWSP's Composite and Additive Manufacturing services as well as advising programmes on any advanced manufacturing requirements.

JAMES LUETCHFORD (Project Engineer) James is a mechanical design engineer with 10 years of experience, specialising in aerodynamics and composite structure design. Prior to joining KWSP in 2016, James worked for Formtech Composites, Force India Formula 1 Team and McLaren Racing. Through his career to date, he has specialised in aerodynamics and lightweight composite structure design.

SOPHIE KILMISTER (Operations Director) Sophie is a qualified solicitor and leads the day-to-day operations of the business. Since leaving the legal sector, Sophie's experience has spanned roles such as Assistant Head Teacher and a Director of a £30m grant-making foundation, excelling in areas such as legal documentation and reporting on funding. Sophie holds functional responsibility for business administration, legal documentation, marketing and HR.

Main contact in the project:

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UltraMAT – Power ultrasound as a generic tool for micro/nanoscale processing of metals

www.ultramat.co.uk



www.kwspecialprojects.com

Innovate UK

UltraMAT is an Innovate UK Project Ref. 102802

Who we are

KWSP is a high-performance engineering team that uses the capabilities and technologies of the motorsport industry to provide turnkey engineering programme delivery, from concept to manufacturing & assembly to multiple sectors.

Key to KWSP's approach is the use of digital manufacturing techniques such as Additive Manufacturing ('3D Printing) that facilitate bespoke solutions to engineering challenges.

KWSP's core capabilities include lightweight structures & composites, powertrain integration, control systems & automation and full system integration, with clients across Automotive & Mobility, Performance Sport and Manufacturing.

Much of our work is in the R&D sphere either on behalf of clients or for our own development. We invest in our own R&D projects often as part of a consortium. We have been involved in and led a number of Innovate UK projects as well as Horizon 2020 funded projects.



Our Products and services

KW Special Projects uses the speed and agility of the motorsport industry alongside the latest in digital manufacturing & engineering capabilities to deliver complete engineered solutions, from concept to production.

Capabilities:

Our skill set spans mechanical, electrical and controls & automation engineering disciplines to support clients with:

High Performance Mechanical Engineering: Precision engineering of mechanical assemblies.

Lightweight Structures & Composites: Motorsport-bred lightweight design, and process expertise applied across sectors.

Additive Manufacturing: Applying digital manufacturing to make low-volume production possible.

System Design, Integration & Automation: Design and delivery of special purpose machines and systems.

Sectors & Applications:

We are sector agnostic and see this diversity as a strength. Just some examples of where we work include:

Transport & Mobility: Delivering engineered solutions to high-performance and niche vehicle markets, and R&D services to mass-market OEMs.

Sports Technology: We leverage our motorsport pedigree to help other sports teams and equipment manufacturers excel in competition, from cycling to winter sports.

Digital Manufacturing: Supporting organisations' adoption of Industry 4.0 through development of bespoke digital manufacturing systems.

