

## **Mark Leybourne**

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### **Career Long Petrol Head**

I have experience, and empathy, brought from organising, supporting, and competing in, many motorsport disciplines, along with being a time served mechanical engineer. Having a passion for motor sport, competing in, and organising, most forms of 4 wheeled motor sport, around the UK. A retired engineer of Nissan Motor Manufacturing UK Ltd. Currently a driving experience instructor with both "Car Chase Heroes" & "PSR".

### **Experience**

#### **1 Racing Driver**

Started racing in the mid-80s, competing in Short Circuit gearbox karting, First event qualifying P2 against the reigning British champion.

For the past 10 years competing in, and, while setting several class lap records around the country, winning the "Northern Saloon and Sports Car Championship" outright twice, both In 2017, and in 2019, and the remaining years winning my class outright.

For 2021 I achieved second overall in the NSSCC with an overall podium in the final round at Snetterton, and won the A2 class for up to 2 litre sports car class with slick tyres, while using a 1 litre road car with treaded tyres, by over 130 points.

Obtaining an "International C licence"

#### **Rallying**

Road rallying, competing for a couple of years as a driver, and navigator in various local championships.

Stage rallying, several years navigating at local events

#### **Speed events**

Rallycross - won a magazine competition for an all-expenses paid rallycross event in a Peugeot 205, competing in the stock hatch category.

Sprints and Hill climbs.

Runner up in the Auto 66 speed championship and the Westfield Club championships, within 2 years of starting.

#### **2 Track Day instructor**

Since 2021 Working with Car Chase Heroes and PSR

Instructing public how to drive classic and performance cars.

\*1. 2023 Gained ARDS C Instructor Grade.

\*1. 2023 Became a Licenced Child Chaperone

#### **3 Car Maintenance**

Preparation of competition vehicles

Including, brake, suspension, and chassis geometry modifications. Engine assembly, conversion to electronic engine management, Motorcycle engine conversion and gearbox rebuilds. Fibreglass bodywork repairs.

#### **4 Engineer**

A traditional apprenticeship time served tool maker, working for the previous 22 years as an engine assembly engineer, for Nissan, specialising in cylinder head assembly, with knowledge gained, sent to visit Japan, USA, and Spain, supporting cylinder head assembly concern resolution.

#### **5 Official**

Marshal

Since the early 80s marshalling and organising motorsport events, gaining the position of Post chief officiating at the British Grand Prix and Dubai 24 hour race events. Mentoring and instructing trainee marshals.

Secretary of the Meeting

Organising rounds of the British sprint championship and Inter-nations Cup Rallycross events.

## **Automotive Engineering Career history**

**Nissan Motor Manufacturing (UK) Ltd.**                      **1999 - present**  
**Casting Process Engineer**                                      **2019 - present**

### Responsibilities.

Implemented "Lighthouse" electronic process data collection system.  
ISO9000 – conducting a full review of all casting process documentation.  
ISO14001 SEG Secretary. Responsible for the environmental documentation, and procedures.  
Developed and delivered Technical process Induction training of new starters.

### Achievements.

Quality outflow prevention – developing, and introducing, a prototype internal inspection system with the supplier, based on their experience with motorcycle cylinder heads, applied to our larger car cylinder heads.  
Successful UTAC ISO9000 quality and UTAC ISO14001 environmental audit. For casting process.

**Engineer, Unit Shop Planning.**                                      **1999 - 2019**

### Responsibilities.

Planning facility modifications, for new engine launches. Day to day concern countermeasures.  
Mainline and Headline assembly process specialising in torque application and automation  
Headline assembly process. Specialising in semi-automated cylinder head valve clearance facility procurement and operation.

### Achievements.

Considered an expert in the valve clearance field, being seconded to manufacturing plants in America, and Spain, to improve the valve clearance measurement process, coaching and mentoring cylinder head assembly engineers.  
Management of successful new family HR13 engine launch at Nissan Sunderland involving working with Renault and Daimler Benz engineering groups across Europe.

**ISA Controls**    **1997 - 1999**  
**Manufacturing Engineer.**

### Responsibilities.

Planning, and scheduling, of deep sea metering equipment manufacturing processes.

### Achievements.

Implementation of a Job scheduling, and tracking, system.

**The Torrington Company (Ingersoll Rand)**                      **1992-1997**  
**NC/CNC Programmer / Production Engineer.**  
CNC programming, Super Finishing cell introduction

**Henry Williams Darlington LTD**                                      **1981 -1992**  
**Apprentice / Production engineer.**

Toolmaking, Tool design, setting, and maintenance. CNC Part programming. Die shop supervision.

## **EDUCATION**

BTEC HNC Mechanical and Production Engineering. Level 1 welding.  
NMUK Team building, team leading, ATEX.  
O Levels – QTY 5 CSE's – QTY 4.