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# Race Car Aerodynamics

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This page is dedicated to gather relevant content related to this subject. Here you will learn: Why race car aerodynamics is one of the major concerns in Motorsport

Engineering; What are the fundamental Physics principles relevant to race car

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How air interacts with each of

the peculiar

components on a race

car You can read all the

articles about Race Car

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improved Race team  
success stories. Of The

Porsche GT4 (Proom  
Racing) Proom Racing  
(Endurance racing, 24h  
Nürburgring) fitted  
wider tires to their  
Porsche GT4 and  
needed wider fenders.  
This could potentially  
block the flow to the  
side air intakes further  
downstream. Using a  
professional 3D model  
of a porsche GT4  
purchased online ...

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From F1 to Indy Car,  
Drag and Sedan racing,  
this book provides  
clear explanations for  
engineers who want to  
improve their design  
skills and enthusiasts  
who simply want to  
understand how their  
favorite race cars go  
fast. Explains how  
aerodynamics win



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races, why downforce is more important than streamlining and drag reduction, designing wings and ...

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### **Home - Kimberley**

### **Media Group**

This course is designed to give the racer or car enthusiast an understanding of aerodynamics as it pertains to a race car. This course discusses

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the differences

between actual air flow

while driving / racing

versus air flow within a

wind tunnel, and how

these flows are

different.

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**Online Racing School**

The best road cars

today manage a Cd of

about 0.28. Formula 1

cars, with their wings

and open wheels (a

massive drag

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component) manage a minimum of about 0.75. If we consider that a flat plate has a Cd of about 1.0, an F1 car really seems inefficient, but what an F1 car lacks in aerodynamic drag efficiency, it makes up for in downforce and ...

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With the ever growing concern to reduce

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How They Came To Be

aerodynamic drag, shapes increasingly streamlined started to arise. The entire car was design in order to provide a smooth, disturbance-free airflow around the car. This lead to generation of aerodynamic lift on race cars. This reduced the available grip.

**Race Car**

**Aerodynamics: How**

**Air Improves Lap**

**Times**

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Who writes is by no mean an aerodynamics expert, but knows a bit about aerodynamics effect on cars performance and behavior and, in general, on vehicle dynamics. This is the main reasons why after a brief introduction about which are the most important aerodynamic forces acting on a race car, we will focus firstly on the effect of said forces

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fast. Explains how

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aerodynamics win  
races, why downforce  
is more important than  
streamlining and drag  
reduction, designing  
wings and ...

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**Aerodynamics:**

**Designing for Speed**

**(Engineering ...**

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Sedan racing, this book  
provides Page 7/27

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The majority of our work has been in the Drag Racing Industry but Simulation covers all Racing Industries in particular aerodynamic CFD work. We have the ability to gather the geometry from your car and do a complete analysis or perform analysis of a local area such as a wing or suspension system.

**CFD - Aerodynamics**

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# Download File PDF Race Car Aerodynamics **Simulation**

JKF Consulting thrives on the design of unconventional and challenging race car aerodynamic devices, and can offer a variety of aerodynamic consultancy services to fulfil your needs. Feel free to contact us via the details on our contact page to discuss your aerodynamic needs and how we can be of assistance.

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Racecar Engineering goes back to basics to look at the function of diffusers. Given the current controversy over the design of the Brawn GP, Toyota and Williams diffusers Racecar Engineering decided it was time to return to the basics of racecar aerodynamics. This will allow us to better understand exactly why their

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designs are more effective. Page Of The

**Diffusers |  
Engineering basics |  
Aerodynamics -  
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Engineering through  
various online courses  
available worldwide.  
Our training is suited to  
enthusiasts with no  
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experience through to  
Race Engineers that  
want an edge on the  
competition, or  
students that are  
destined to work in  
motorsport.

## **Aero Courses - Race Car Aerodynamics Australia**

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Mustang Race Car  
Parts. Aerodynamic  
and Lightweight parts  
for Ford Mustangs. Fox,  
S95, S197, S550, and  
Custom Applications

## **Mustang Race Car Parts - AJ Hartman Aero**

So then it is by  
combining the Cd with  
the Frontal area that  
we arrive at the actual  
amount of drag created

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by a vehicle.

Lift/Downforce.

Downforce is the same force as the lift

experienced by

airplane wings, only it

acts to press down

instead of lifting up.

Every object travelling

through air creates

either a lifting or

downforce situation.

Most race cars and

some road cars use

aerodynamic ...

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Next best, in my opinion at least, is Prof Joe Katz's book: Race Car Aerodynamics. It's great for explaining the fundamentals and I'd say pretty much every race car aerodynamicist has a copy of it on their desk, but personally I think it's in need of another modernisation.

**Racecar**

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**aerodynamics books**

**-any good ones? -**

**TenTenths ...**

Aerodynamic Analysis

of Race Car Using

Active Wing Concept

2019-28-2395 In high

speed race cars,

aerodynamics is an

important aspect for

determining

performance and

stability of vehicle. It is

mainly influenced by

front and rear wings.

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