



# *OPTIMUM*

vehicle dynamics solutions

An international consortium of engineers, OptimumG works with automotive companies to enhance their understanding of vehicle dynamics and data acquisition through seminars, consulting and software development.

8801 East Hampden Avenue, Suite 210, Denver, Colorado USA  
+1 303 752 1562 [engineering@optimumg.com](mailto:engineering@optimumg.com) [optimumg.com](http://optimumg.com)

The automotive industry is an extremely competitive business.

Vehicle dynamics is understanding *how, why and how much* certain factors affect vehicle behavior, rather than relying only on experience and intuition. With over 30 years of experience teaching on-site and public seminars on vehicle dynamics and data acquisition, Claude Rouelle has tailored lectures for audiences of various size and experience level.

**On-Site Seminars** can be specialized on specific topics such as tires, simulation, damping, aerodynamics and more.

**3-Day Programs** are given several times a year and across the globe. Learn how to:

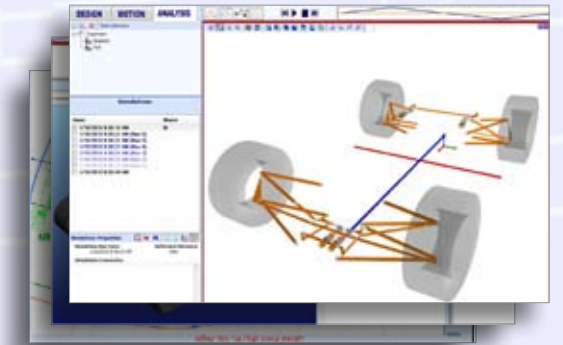
- make the most of your data
- improve driver and chassis performance
- use data acquisition to understand, analyze, predict and improve car handling.
- increase your understanding of kinematics, springs, tires, car design, weight transfer, shocks and more.

**12-Day Programs** Most engineers are extremely specialized and highly knowledgeable in their specific area. With this longer seminar, engineers can come away with a better understanding of how their specific area fits into the larger picture and how to improve on both.

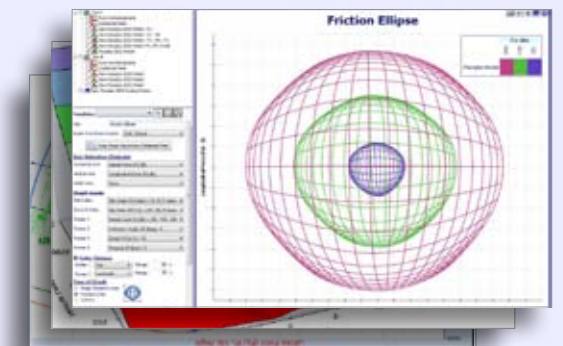
Software programs bring design and analysis directly to you.

The engineers at OptimumG have developed software programs to help automotive and race car professionals develop and design their vehicles.

**OptimumK** Designing and setting up a car is hard work. Kinematics software shouldn't be. OptimumK aids in suspension design and analysis, and is specifically designed with a user-friendly interface for more efficient suspension design.



**OptimumT** The collection and analysis of tire data is an important, but often neglected area of vehicle dynamics. This tire visualization and tire modeling tool allows better insights into how a particular tire operates, and allows users to run more accurate vehicle simulations. Faster than any other software on the market, OptimumT is the most efficient way to utilize your tire data.



## seminars

## software development

One thought that I had after the course... when I was starting off, where was someone like Claude to explain things so clearly, rather than having to learn the hard way?

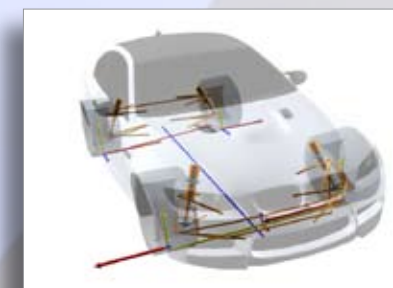
**Owen Hayes**  
Porsche Motorsport

Practical and direct advice to efficiently put vehicle dynamics knowledge into action. Discover new principles of analysis and learn how to verify your hypotheses during a test.

**Eric Fenaux**  
PSA Peugeot, Test and Development Engineer

I wish I had been able to attend Claude's seminar some years ago. It would have short cut the learning process of becoming a race engineer by many years. Claude adds his years of experience, and a few laughs, to make an entertaining and technically interesting few days. For a person wanting to make their way in the sport, this seminar is a must.

**Campbell Little**  
V8 Supercars, Race Engineer



### Coming soon...

We are in the process of developing and releasing CVD, computational vehicle dynamics software, allowing users to design their own suspension, set-up a car, run steady state simulation, analyze over 500 outputs, and view those outputs in 2D and 3D visualizations.



At OptimumG we have the engineering expertise, knowledge and resources to provide you with the continuous performance improvement your organization is striving to achieve.

OptimumG engineers can provide assistance in various technical sectors.

- automotive engineering
- on track testing and engineering
- lab testing
- data acquisition
- mechanical design

With experience ranging from commercial vehicles to the race track, OptimumG engineers have traveled the world to work with engineers on contracts as short as one weekend and as long as three years. Our staff is flexible and happy to work within your budget.

# consulting services

## **Our client list has included:**

Bridgestone, Dunlop, MoTeC, Ferrari, Michelin, Chrysler, Stone Brothers Racing, Porsche Motorsport, Derhaag Motorsports, ISMANS, Vintage Racing Services, Swansea Institute UK, Brigham Young University, Elan Motorsports Technologies (Panoz), Drysdale Motorsports, G&W Motorsports, Team Oreca, Ford Racing Operations, Michelin F1, Automotive Test Systems, Dynamic Suspensions, The Strain Gauging Co. Ltd, A.P.Racing, Pagani Automobili, Sachs, Toyota F1 **...just to name a few.**