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Intuitive and Practical Software Solutions for Automotive Engineers **OptimumG Continues to Develop Custom Programs for Top-Tier Organizations**

The vehicle dynamics consulting group [OptimumG](#) has a strong history of creating software programs that help automotive companies and race teams with their vehicle dynamics and data acquisition needs. Through their public software programs – [OptimumK](#), suspension design; [OptimumT](#), tire modeling and visualization; and [CVD](#), computational vehicle dynamics – OptimumG has proved their expertise when it comes to developing intuitive and practical solutions for automotive engineers. Now tapped by top-tier organizations, OptimumG has created [personalized software programs](#) for clients to assist in data management across entire organizations in an easy-to-use interface.

Examples of Past Projects

Live Timing & Scoring This program assisted a client in further race strategy and analysis by displaying their data in real time, both graphically and numerically, for pit lane use and later review. Different displays included live timing results, section time and track position.

Data Analysis Database Many of our clients need systems that go beyond the basic capabilities of data analysis software, and obtain more information about their car and driver. We have developed specific database packages for these teams to store and display "key performance indicators" over a session, an event, a season or multiple years.

Hardware in the Loop For those teams that are in need of precise application, hardware in the loop methods can be used to calculate or display live values as they are obtained from a data acquisition system. An example of this was a "Tire Force Calculator" that we created which calculated forces and moments live, based on slip angle sensors and a vehicle model.

Race Management Rather than shuffling through numerous Excel documents, this software organized valuable information from test and race weekends in a more concise and easy-to-navigate system. Our engineers developed a system that automatically generated reports based on timing and scoring, set-up evolution, data analysis, "key performance indicators", conditions, and more.

For more information on custom software programs, interested parties are encouraged to contact R&D Engineer Henning Olsson at +1 303 752 1562 or henning.olsson@optimumg.com.