University of Idaho Formula SAE

Senior Design Team Sponsorship Proposal

Prepared by:

Real-time Performance Monitoring Solutions

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Objective

We are a senior design group from the University of Idaho; our name is RPMS (Real-time Performance Monitoring Solutions). We would like to propose the development of a wireless real-time data monitoring system to complement your DL1. We believe that with the support of Race Technology we will be able to develop such a system.

Justification

Dr. Edwin Odom and the University of Idaho Formula SAE design team have requested a telemetry package to help analyze performance data of the vehicle and driver. Dr. Odom believes this package will enhance vehicle development and become showpiece for the team. As a showpiece, it will help increase vehicle’s scoring in competition.

A wireless transmission system will send signals from a data acquisition system to a laptop base station. The laptop will then display the data in real time. This will give the pit crew the opportunity to provide immediate feedback to the driver. The wireless transmission system will transmit a minimum distance of 1-mile line of sight.

We have found that the DL1 from Race Technology would provide us a perfect building block to deliver all that Dr. Odom has requested. In order to complete our project most effectively, we are seeking a partnership with Race Technology in the form of technical support and the donation of a DL1.

We would also like to invite Race Technology to be the official sponsor of our design team; there are no monetary requirements to be a sponsor. Our design project will run until May 15, 2005 at which time the RPMS team will provide Race Technology with all intellectual property (IP) developed over the course of the year in exchange for your support. It is required that the University of Idaho maintains free use of the IP after the end of the project.

Qualifications

The RPMS team is comprised of Nick Helseth, a senior in computer engineering; Rich Bingham, a senior in electrical engineering with emphasis in mixed signal systems; and Dan Holmes, a senior in electrical engineering.

We appreciate your consideration and look forward to your response to this proposal.