



Design, Software Engineering and Implementation of an Embedded Telemetry System for a Solar-Powered Racing Car

By Thorsten Jungmann

diplom.de. Paperback. Book Condition: New. Paperback. 100 pages. Dimensions: 8.3in. x 5.8in. x 0.2in. Diploma Thesis from the year 2001 in the subject Design (Industry, Graphics, Fashion), grade: 1, 0, Bochum University of Applied Sciences (Elektrotechnik), language: English, abstract: Inhaltsangabe: Abstract: An embedded telemetry system has been designed and implemented into the solar-powered racing car Mad Dog 3. The system shall assist strategists in making decisions during a solar car race. It delivers input data for a computer simulation model and for reconstruction of situations when failure occurred. System requirements have been analysed and the scope of solutions on the market has been explored. As a result, the choice of hardware and peripheral components has been made in favour of a microcomputer-based system. Strategy-relevant quantities in the solar car are measured by transducers and at the same time displayed on panel meters in the cockpit. Measured data are transmitted via a bus system to the central processing unit, which consists of the worlds smallest PC. From the sensor signals the cars performance data is computed. As a result of computation, sets of performance data are sent to a laptop computer in one of the support vehicles by a pair of wireless...



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