

ABSTRACT**THE DESIGN OF ELECTRONIC SCORING AND SIGNING SYSTEMS**

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The use of Electronic Displays for large read-outs and the display of visual information, is not common in the Caribbean due to scarce resources and a lack of maintenance support. This paper therefore investigates and develops two prototype sporting systems and provides the motivation for the design of systems for custom applications.

The two prototype systems that are designed and constructed are the Electronic Cricket Scoreboard and the Waterpolo Scoreboard. The Electronic Cricket Scoreboard displays game variables such as Score, Wickets Lost and Overs Remaining for spectators and players alike. A Graphic User Interface, running on an MS-DOS based machine, transmits commands through a serial link to the On-Scoreboard Computer. The Operating System running on the On-Scoreboard computer then decodes and executes the commands. Alternatively, the Waterpolo Scoreboard is controlled by a control panel which allows the starting and stopping of the shot clocks and the seven minute count-down timer, as well as, increasing Home and Guest Scores.

The energy requirements of these systems are minimized by using passive indicators, which are electromagnetically operated, requiring power only when a change of indication occurs. These systems are low cost since the power requirements are small and the systems are built within the region. We have therefore developed a Scoring and Signing System model which is low power, low cost and user friendly.