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AN ANALYSIS OF EMBEDDED SYSTEM DESIGN ASPECTS

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ABSTRACT

The use of embedded systems has increased at an exponential rate in virtually every area, from cars to household appliances to ICT (Information Communication Technology). Embedded systems and embedded computer processors have received a lot of attention in recent years, even in desktop application environments. The inherent advantages of embedded systems over conventional desktop computers, as well as the rapid growth in the computing capacity of embedded processors, are driving this trend. Rural application platforms are designed to run applications that are needed to provide various e-services and self-help services in rural regions. In terms of power outages, irregular grid power circumstances, high temperature ranges, changing humidity, dusty atmosphere, and so on, the eco system existing in rural regions, particularly in developing nations, is mainly difficult. Although embedded systems have many benefits, they can have significant drawbacks, especially in the context of application platforms. We explore and evaluate many elements and difficulties related to the design of embedded systems for rural application platforms in this article. We also talk about how to deal with the difficulties that come with designing an embedded system for a rural application platform.

KEYWORDS: *Application Platform Embedded System, Hardware, Network, Software.*

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