



بسم الله الرحمن الرحيم



Sudan University of Science & Technology

College of Graduate Studies

**Design and Implementation of a Microcontroller –
Based Solar Panel Tracking System**

**تصميم وتنفيذ نظام تتبع لوحة للطاقة الشمسية بالاعتماد علي
المتحكم الدقيق**

A Thesis Submitted in a Partial Fulfillment to the Requirements for the
Degree of M.Sc. in Electrical Engineering (Control and Microprocessor)

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