



**Sudan University of Science and  
Technology**

**Khartoum, Sudan**

**Mechanic Department, College of Engineering**

**Simulation of a Programmable Logic  
Controller for Controlling Bottles Filling  
System**

**محاكاة المتحكم المنطقي القابل للبرمجة للتحكم في نظام  
تعبئة قوارير**

In Partial fulfillment of the Requirements for the Degree of M.  
Sc. in Mechatronic Engineering

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