

Sudan University of Science and technology
College of Graduate studies

**Line Following Robot Using Proportional Integral
Derivative Controller**

الربوت متتبع الخط باستخدام متحكم تناسبي تكاملي تفاضلي

**A Thesis Submitted Partial Fulfillment of the Requirement
for the Degree of M.sc Computer Engineering.**

By

Afaf Mustafa El-Hassan

Supervisor

Dr. Ala Eldin Awouda

March 2014