## SUDAN UNIVERSITY OF SCIENCE AND TECHNOLOGY COLLEGE OF GRADUATE STUDIES

## DESIGNING OF FUZZY PROPORTIONAL INTEGRAL DEFFERENTIAL SELF TUNING CONTROLLER FOR A COLD STORE

تصميم حاكمة المنطق الغامض النسرة – التكاملية – التغاضلية خاتية التنغيم لمحزر، تبريد

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

Prepared by:

MARWA ELHAJ HASSAN TAHA

Supervised by:

Ustaz. ABDALLA SALIH ALI

**OCT 2012**