

بسم الله الرحمن الرحيم
SUDAN UNIVERSITY OF SCIENCE &
TECHNOLOGY
College of Graduate Studies

Performance Analysis of Hybrid Electric Vehicle Battery Charger Using Voltage Oriented Control

تحليل أداء شاحن بطارية سيارة كهربائية هجين باستخدا
التحكم في الجهد الموجه.

**A Thesis Submitted in Partial Fulfillment for the Requirements of
the Degree of M.Sc. in Electrical Engineering (Power).**

Prepared by:

Mohammed Hassan Ahmed Abd Alrahman

Supervised by:

Dr. Nagm Eldeen Abdo Mustafa Hassanin

April- 2013