

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

**MICROCOMPUTER SYSTEM EXPANSION BY
USING PPI TECHNIQUE**

A thesis
submitted for partial fulfillment for the award of M. Sc. in
Microprocessor and Electronic Control

Presented by:

ZAIN ELABDEEN ABD ALLA HAJ AHMAD ZAHRAN

Supervised by:

DR. ABD ALRASOOL JABAR ELZEBIDI

2005