



**ARAB ACADEMY FOR SCIENCE, TECHNOLOGY AND
MARITIME TRANSPORT (AASTMT)
College of Engineering and Technology - Cairo
Electrical and Control Department**

**A PSO-Based Optimum Design of PID Controller for a
Brushless DC Motor**

By

Eng. Anas Osman Mohamed Shomer

Department of Electrical and Computer Engineering
Higher Technological Institute

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Under Supervision of

Prof. Dr. Fathy Nasr El-Deen Hassan
Faculty of Engineering-Hewan University

Prof. Dr. Hassan El-Sayed Ahmed Ibrahim
College of Engineering and Technology-AASTMT

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