



ING. MECATRÓNICA

**Submitted in Partial Fulfillment of the Requirements for
the Degree of Mechatronic Engineer**

AUTHOR:: Carlos Ariel Segovia Borja

TUTOR: PhD. Vladimir Bonilla

Implementación de un Sistema de Marcaje Electrónico para
Competencias de Taekwondo Basado en Sensores y Analítica en
Tiempo Real

Implementation of an Electronic Marking System for Taekwondo
Competitions Based on Sensors and Real-Time Analytics