



MECHATRONICS ENG.

SUBMITTED IN PARTIAL FULFILLMENT OF THE
REQUIREMENTS FOR THE DEGREE OF
MECHATRONIC ENGINEER

AUTHOR: HAROLD ESTEBAN
LUCERO NIETO

SUPERVISOR: ALEXANDER JAVIER
TIRIRA FREIRE

DESIGN AND IMPLEMENTATION OF A MOBILE ROBOT PROTOTYPE WITH
OBSTACLE DETECTION AND IDENTIFICATION OF HIGH-RISK AREAS TO
TRANSPORT 2 TYPES OF PILLS IN THE ROOMS OF THE PROFAMILIA CLINICAL
SURGICAL CENTER.