زانکۆی پۆلیتەکنیکی هەولێر
ERBIL POLYTECHNIC UNIVERSITY

ERBIL TECHNICA MEDICAL INSTITUTE

FORENSIC DEPARTMENT

" Interception and defusion of SIM card-controlled explosives by a robotic jammer "

Research Project

By:-

Moahammed Yassen Khorshid **Hawzheen Hussein Rahim**

Twana Abdullqader Ahmed **Dler Abdulla Mohammed**

Baban Arsalan Saleh **Hariwan Zuher Ahmed**

Supervised by:

Assist.Lecturer Media Fadhil Jalil

January 2024

Abstract

Advances in technology in the areas of human-machine interfaces, networks, sensors, computing, security, military and power systems will enable associated improvements in the capabilities of robotic systems. Robotic systems will see wider use in areas such as surveillance,infrastructure support , transportation, mine‹explosives,hunting/removal, disaster response, consequence management, medical, space, strike/engagement and casualty evacuation. The importance of being aware of possible use of robotic systems against terrorist attempts was also highlighted.

Robots in the future will be (more) autonomous. The full autonomy, seen in self-driving cars already today, induces requirements to change the widely accepted principle of a human decisions/ responsibility in the chain of command

Our project's robot is uses Arduino Mega 2560 mini microcontroller to operate all the other electronic components that send commands to the robot through a six-channel Radio controller(RC). The robot can move and climb on any terrain. The distinguishing feature of our project from traditional projects is that the mobile jammer board designed by ourselves with a special design software called (Altium Designer).

List of Contents *Page No.*