University of Technical  Department of Electrical

Palestine Khadoori Engineering - Industrial

Automation

**Effective parking for high building**

Anas Mansour salamah 201820197

Yousef Omar Nasrallah 201911314

Majd Alsaad 201511511

**Supervised by** **:**  
Dr.Anees Sneineh

***Graduation Project Submitted in Partial Fulfillment of the Requirements for the Degree of Bachelor of Electrical Engineering.***

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**الإهداء**

من قال أنا لها "نالها" وأنا لها وإن أبت رغما عنها وأتيت بها .

الى الأيادي الطاهرة التي ازالت من طريقي أشواك الفشل ..

الى من ساندني بكل حب عند ضعفي ..

الى من رسموا لي المستقبل بخطوط الثقة والحب ..

اليكم عائلتي ..

أهدي فرحة تخرجي الى تلك الانسانة العظيمة التي طالما تمنت أن تقر عيناها برؤيتي في يوم كهذا .. الى أمي

والى من كلل العرق جبينه وعلمني أن النجاح لا يأتي إلا بالصبر والإصرار ..الى أبي

والى شهدائنا الأبرار الذين اختاروا طريقا فضل الله بها عبادا عن عباد .. سلام عليكم بما صبرتم فنعم عقبى الدار.

والى اسرانا البواسل في سجون الاحتلال فشمس الحرية ستشرق من جديد ..

**شكر وتقدير**

في البداية ، شكرًا للعائلات على كل الدعم الذي قدموه لنا.

شكر لحضرة الدكتور أنيس أبو سنينة الذي أشرف على هذا المشروع منذ البداية.

شكرا لرئيس قسم هندسة الأتمتة الصناعية الدكتور محمد الدريدي الذي كان معنا من بداية المشوار الدراسي ..

وشكر خاص للأستاذ نجيب الطنيب الذي ساندنا بعمل هذا المشروع.

ولكل من ساعد في استكمال هذا المشروع سواء بالمعلومات أو بأي شكل من الأشكال .

**Abstract**

الترجمة طويلة جدًا ولا يمكن حفظها.

The increase in the number of cars in the streets led to a permanent crisis in all neighborhoods, and this worked to encourage the owners of buildings and commercial establishments to create car parks, but it turned out that these parking lots quickly filled up with cars that did not have the right to park in the place, especially in residential buildings. So, we knew about this project of ours to save for each apartment the exact place to park its private car, so that we reserve for each car park a pole that is raised from the ground as much as the height of the car, and this prevents the parking of any car except for the car designated for this site. Describe the car safely. The system is built using an RFID (Radio Frequency Identification) to allow entrance for drivers using a card. Also, it uses sensors at the exit gate to specify.

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**LIST OF ABBREVIATIONS:**

1. RFID: Radio Frequency Identification
2. ISO - International Standards Organization.

3- EPC global - Electronics Product Code Global Incorporated.

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