

Project Title

Universal Kit for Split Inverter Air Conditioner

Project Team

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According to the laws, At College of Engineering and Technology and the supervision and follow up of this Project direct supervisor, with the approval of the examining committee. This project submitted to the Electrical Engineering Department in order to meet the graduation requirements with a bachelor's degree in engineering Major of industrial automation engineering.

Supervisor Signature

Examining Committee Signatures

Head of Department

Dedication

To our God..... For his guidance

To our Teachers For help us until the beauty end

To our friends Who give us Positive sentiment & Support

To the family - father, mother, wife's, sons, who have patience in order to get to what we have

To our great Palestine

To our supervisor Prof. Dr. Sameer Khader

To all who made this work is possible & accurate

Gratitude

We would like to express our gratitude for everyone who helps us during the graduation project, starting with endless thanks for our supervisor Prof. Dr. Sameer Khader who did not keep any effort in encouraging us to do a great job, providing our team with valuable information and advices to be better each time.

Thanks for the continuous support and kind communication which great effect regarding to feel interesting about what we are working on.

In addition, our thanks forwarded to all instructors and engineers who helped us during the first stages of our graduation project.

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Abstract

The objective of this Project is to search for an efficient way for solve the problems in modern air conditioner, Focusing at A huge maintenance cost in comparison to the cost of the device and Replacing the panel inverter by another make. Universal Kit for Split Inverter Air Conditioner low cost; a new kit was designed to alternative board that can be replaced on various types of modern split inverter air conditioners. the project contains two main boards of the split inverter HVAC, Indoor and Outdoor board, in the indoor board human machine interface, communication parts and the fan driver. While Outdoor board contains rectifier, insulation component, protection circuits, filters and multi power drives boards.

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