This document deals with the theoretical, technical, design and mechanical aspects required for the design and implementation of a system for the characterization of automotive LEDs. The project has been performed as a Bachelor Thesis to finish the studies of Industrial Electronics Engineering at the University of Granada,Spain.

Francisco José Gámez Porcel is the author of this Bachelor Thesis.During these years he has been participating in some GranaSAT projects.His passion for the automotive sector from an early age has led him to choose this project focusing on guiding his professional career in this field and at the same time orient it to the production for this industry.

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BACHELOR THESIS
DESIGN AND IMPLEMENTATION OF A CHARACTERIZATION SYSTEM FOR AUTOMOTIVE LEDS
Francisco José Gámez Porcel
2019 2020

UNIVERSITY OF GRANADA
ELECTRONIC ENGINEERING
BACHELOR'S THESIS

Design and implementation of a characterization system for automotive LEDs

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KEYWORDS:

Automotive, Vehicle, Headlight, Backlight, LEDs, PCB, Design, Implementation, GRANASAT, Luxometer.

SUMMARY:

The main purpose of this document is the study, design and implementation of a system capable to measure different parameters referred to the light intensity of an LED directly linked to the process of manufacturing it and its power system. This document has been done as a *Bachelor Thesis of Electronics Engineering* in the University of Granada,Spain.