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(Sinodal Interno, Presidente del Jurado)**Tesis:****"TOWARDS THE CONSTRUCTION OF AN ELECTRIC GENERATOR FOR QUADROTORS:
MODELING, DESIGN, AND CONTROL OF THE ELECTRONICS"****Resumen:**

Un receptor solar es el corazón de una instalación de concentración solar de potencia. Es el This thesis develops the basis for the design and construction of a power generation system for application in unmanned aerial vehicles (UAV) with quadrotor structure. This system is integrated by a power generation stage, with two-stroke internal combustion engine of two Horse-Power (HP) coupled with a brushless Altern Current (AC) motor. In particular we will focus more on the second stage that is rectification and voltage regulation. In this work a three-phase controlled rectifier is proposed, modeled, and simulated for this purpose a robust adaptive control is implemented to regulate the output voltage or current and to adapt even when the output load is unknown or changes. The mathematical model was worked in $d - q$ space and the controller was designed considering this model in which the states i_d (direct current) i_q (reactive current) and v_o (system output voltage) are controlled.