



**UNIVERSIDAD
DE GRANADA**

Facultad de Ciencias



TRABAJO FIN DE GRADO

GRADO EN INGENIERÍA
ELECTRÓNICA INDUSTRIAL

**Circuitos digitales con
memristores.**

**Oscilador controlado
por tensión utilizando
memristores.**

Presentado por:

D. Ramón Dengra Durán

Tutor:

Prof. D. Pedro García Fernández

Curso académico 2020/2021

Abstract

In this Bachelor's Degree Final Project (TFG), a voltage controlled oscillator will be designed for the treatment of Parkinson disease through the deep brain stimulation procedure. Memristors and resistors will be used for its construction, and the differences between them will be compared.

Key Words: Memristor, Voltage Controlled Oscillator (VCO), Deep Brain Stimulation, Parkinson's disease.