Graduated Undergraduate Honor Theses Students



1. Ross A. Kerley, Fall 2011

*Small-Scale Hybrid Alternative Energy Maximizer for Wind Turbines and Photovoltaic Panels*

1. Jonathan Baker, Summer 2009

*An Optimal, Low-Cost Design for Small Wind Turbine Converters Applied to Charging Batteries*

1. Christopher Hamilton, Summer 2009

*Digital Control Algorithms: Low Power Wind Turbine Energy Maximizer for Charging Lead Acid Batteries*

1. Roberto Miguez, Spring 2009

*Introduction to the Grand Solar Belt of America: Combinatorial Optimization Using Genetic Algorithms*

1. Venceslav Gaydarzhiev, Fall 2007

*Energy Extraction using Maximum Energy Harvesting Control as a refinement over Maximum Power Point Tracking on an Energy Harvesting Backpack.*

1. Najlae Yazghi, Fall 2006

*Interactive Learning System for Electrical Engineering Circuits*

1. Justin Reese, Fall 2006

*Averaged Model of a Three-Port Solar Power Converter*

1. Matt Hicks, Spring 2006

*High Frequency DC-DC converters*

1. Adje Mensah, Fall 2004

*Modeling and Analysis of Solar Arrays for Grid Connected Systems with Maximum Power Tracking*

1. Rebecca Hayman, Fall 2004

*DSP-Based Design of Solar-Based Inverter Systems*

1. Loni Gibson, Fall 2000

*Steady State Analysis and Simulation of an Inverter Circuit for NASA Applications*

1. Enrique Tenicela, Summer 2000

*Steady State Analysis for a New Power Static Inverter Topology for Aerospace Applications*

1. Danny Tawil, Spring 1995

*Analysis of PWM Converters Including Transistor and Inductor Losses*

1. Debra-Ann Kemnitz, Spring 1994

*Simulation of Family of DC-to-DC Resonant Converters*

1. Henry Nguyen, Spring 1993

*Steady State Analysis and Design of Parallel Resonant Converters*