COMPLETED HONOR UNDERGRADUATE THESES:

1. Ross A. Kerley, Fall 2011
   Small-Scale Hybrid Alternative Energy Maximizer for Wind Turbines and Photovoltaic Panels

2. Jonathan Baker, Summer 2009
   An Optimal, Low-Cost Design for Small Wind Turbine Converters Applied to Charging Batteries

3. Christopher Hamilton, Summer 2009
   Digital Control Algorithms: Low Power Wind Turbine Energy Maximizer for Charging Lead Acid Batteries

4. Roberto Miguez, Spring 2009
   Introduction to the Grand Solar Belt of America: Combinatorial Optimization Using Genetic Algorithms

5. Venceslav Gaydarzhiev, Fall 2007
   Energy Extraction using Maximum Energy Harvesting Control as a refinement over Maximum Power Point Tracking on an Energy Harvesting Backpack,

6. Najlae Yazghi, Fall 2006
   Interactive Learning System for Electrical Engineering Circuits

7. Justin Reese, Fall 2006
   Averaged Model of a Three-Port Solar Power Converter

8. Matt Hicks, Spring 2006
   *High Frequency DC-DC converter*s

9. Adje Mensah, Fall 2004
   Modeling and Analysis of Solar Arrays for Grid Connected Systems with Maximum Power Tracking

10. Rebecca Hayman, Fall 2004
    DSP-Based Design of Solar-Based Inverter Systems

11. Loni Gibson, Fall 2000
    Steady State Analysis and Simulation of an Inverter Circuit for NASA Applications

12. Enrique Tenicela, Summer 2000
    Steady State Analysis for a New Power Static Inverter Topology for Aerospace Applications

13. Danny Tawil, Spring 1995
    Analysis of PWM Converters Including Transistor and Inductor Losses

14. Debra-Ann Kemnitz, Spring 1994
    Simulation of Family of DC-to-DC Resonant Converters

15. Henry Nguyen, Spring 1993
    Steady State Analysis and Design of Parallel Resonant Converters