



**Savannah River
National Laboratory™**

OPERATED BY SAVANNAH RIVER NUCLEAR SOLUTIONS

We put science to work.™

Clemson University College Experience

Klaehn Burkes
Senior Engineer

CAPER Fall 2017

November 9, 2017

Undergrad Electrical Engineering Course Work

Electronics 1

Signals and Systems

Microcontroller Interface

Electromagnetics

Electronic 2

Random Signal Analysis

Electric Power Engineering

Field Waves and Circuits

Technical writing

Continuous and Discrete Systems

Power System Analysis

Communication Systems

Senior Design 1

Public Speaking

Electric Machines and Drives

Renewable Energy

Senior Design 2

CUPRA/IEEE PES held industry speakers (attendance received extra credit and pizza was provided) and conducted a field trip (travel to Cross Generation Station)

Perfect Power Curriculum

Graduate School



Grad Electrical Engineering Course Work

Analysis of Linear Systems

Computer Applied Power Systems

Electric Power Distribution Systems

Power System Dynamics and Stability

Solar Cells

Electric Motor Control

Power system Transients

Power System Protection

Thesis



Perfect Power Curriculum

Graduate School + Thesis

Curriculum

- Better connection between theoretical and application
- Connection between how to apply information learning
- Professors maintain CEU in education/teaching and technical
- NO POWER POINT

Thesis

- Write proposal for research topic
- Develop schedule and Gant chart for milestones an deliverables
- More industry involvement
- More hands-on/practical research



How well prepared were you to begin your career?