

SUMMARY VITA- Preston Cooper

Adjunct Faculty of Electrical Engineering

Education

Auburn University Auburn, AL

Bachelor of Electrical Engineering 1996 - 2000

Graduated Magna Cum Laude; Specialization in ASIC and system design

Academic Experience

UTC Chattanooga, TN

Adjunct Professor 2011 – Present

- *ENEE 4720/5720 (Power Analysis) Fall 2013 Semester*
- *ENEE 4720/5720 (Power Analysis) Fall 2012 Semester*
- *ENEE 4720/5720 (Power Analysis) Fall 2011 Semester*
- *ENEE 2720L (Circuits 2 Lab) Spring 2011 Semester*

Auburn University Auburn, AL

Research Assistant 2000 – 2002

- Design printed wiring boards for use as test vehicles for multiple companies to provide insights on manufacturing guidelines and design rules.
- Design guidelines written for Auburn University printed wiring board design to facilitate the rapid learning of future designers and compatibility of the designs with Auburn's assembly equipment

Non- Academic Experience

Tennessee Valley Authority Chattanooga, TN

Electrical Calculation Specialist 2010 – Present

- Provides electrical calculation support and guidance for the nuclear fleet.

Tennessee Valley Authority Chattanooga, TN

Senior Electrical Engineer 2006 – 2010

- Project lead for generator protection upgrade for multiple generating units.
- Responsible engineer for arc flash studies and mitigation for fossil fleet.

Tennessee Valley Authority Chattanooga, TN

Electrical Engineer 2002 – 2006

- Engineer for arc flash studies and mitigation for fossil fleet.
- Written programs to expedite drawing reproduction and increase efficiency.

Papers

1. Arc Flash Hazard Management “A Total Approach to Arc Flash Compliance” Presented to: Power-Gen International 2006 Orlando, Florida November 28 – 30, 2006

2. Green Field Design for Arc Flash Reduction Presented to: Electric Power 2010
Baltimore, Maryland May 18 - 20, 2010

Awards and Organizations:

Exceeds Expectations	2002 -2010
• Highest performance rating available for TVA employee	
IEEE Member	2008-present
• IEEE Standards Association Member	
Graduation Honor Cord	Spring 2000
• Top 5% academically graduating Auburn University	
Eta Kappa Nu	1998 - present
• Top 15% Electrical and Computer Engineering Students	
Phi Kappa Phi	Fall 1997
• Freshmen Honors Fraternity Auburn University	