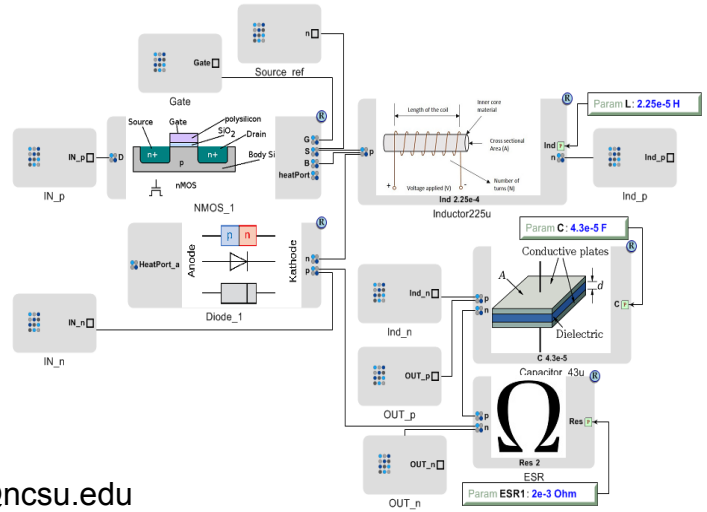
Project Title: Wide Bandgap Power Converter Design Space Exploration.

Objectives: Develop a Power Converter Design Space Exploration software teaching tool.

Major Milestones: Software fully functional, with documentation, and available for download; new graduate course offered at NC State with curriculum made public.

Significant Equipment Acquisition: None.

Deliverables: Software fully functional, with documentation, and available for download; offered an advanced graduate course that uses the developed software.



PI: Srdjan Lukic
Email: smlukic@ncsu.edu
Phone: 919-513-2842

WBG Technology Impact

1. Delivers a teaching tool that enables comprehensive power electronics design space exploration
2. Customized teaching modules and tools targeted to industry professionals, undergraduate and graduate students, and researches.
3. Tool helps identify WBG insertion opportunities through comprehensive system-level optimization.

Additional impacts

1. Tool ties in with PowerAmerica Roadmapping efforts.
2. Undergraduate and graduate students involved through direct support and through planned course offering. Graduated Students will form the new WBG workforce.
3. Three domestic students will lead the effort.