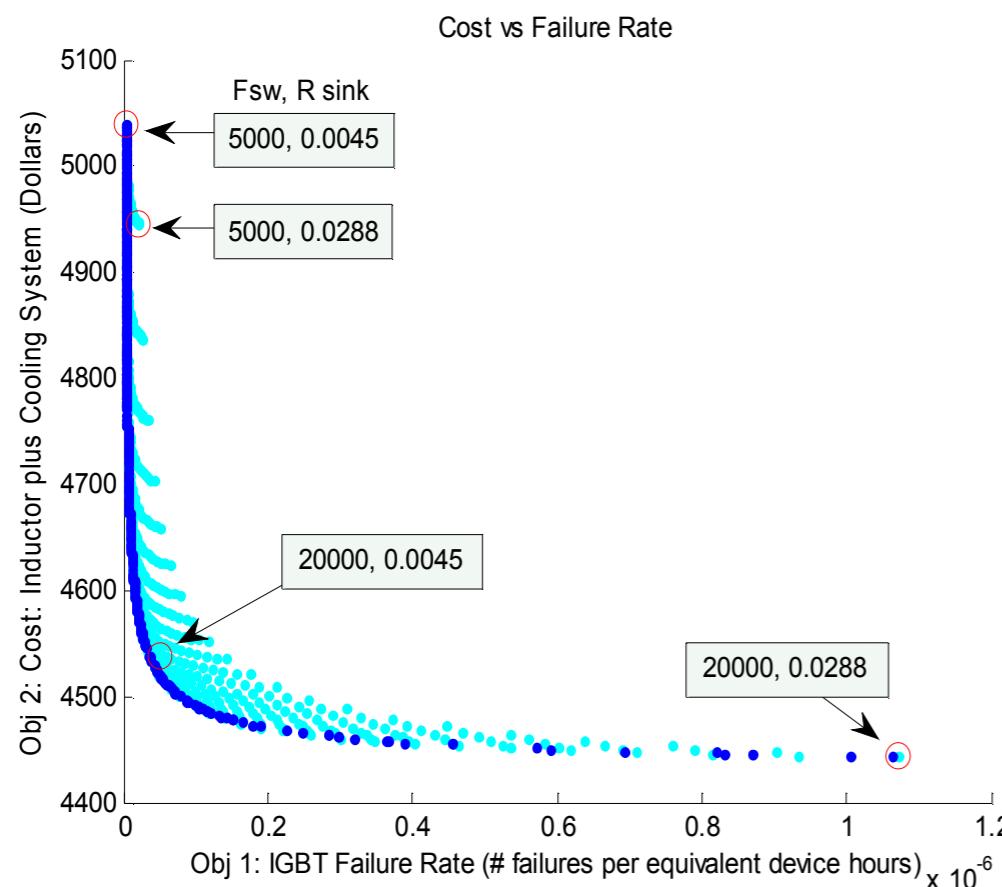
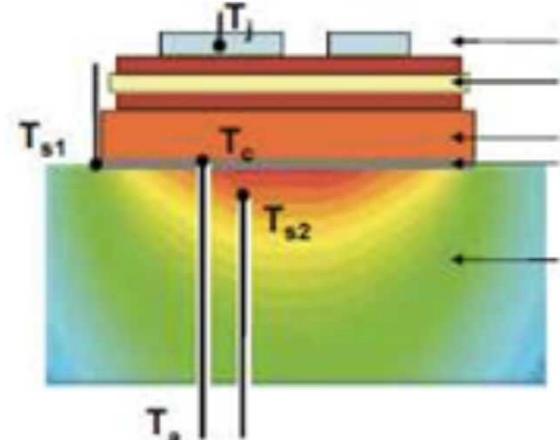
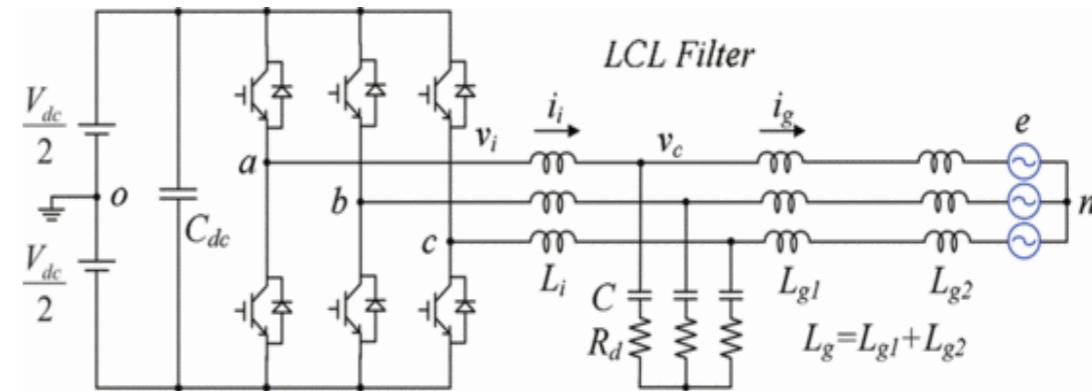


# Multi-Objective Optimization for Power Electronics used in Grid-Tied Energy Storage Systems



Sarah Hambridge, Ph.D. Student, NC State University

Dr. Stan Atcitty, Sandia National Laboratories



- Demonstrated for Inverters used in Battery Energy Storage Systems
- Optimization of IGBT Failure Rate , Filter and Cooling Costs