• Extends the switching power-pole concept
• Configurable to perform variety of experiments
• Input and output current sensors
• Overvoltage and overcurrent protection
• Both analog and digital control possible

Voltage-Mode Control
• Transfer function \( \frac{v_o(s)}{d(s)} \) calculated using a
perturbation at duty ratio and measuring
output voltage perturbation in PSpice
• Controller is designed and implemented
using an R-C circuit

Input Current and Primary Switch Voltage

Output voltage response for a step change in load

Vendor Information
HiRel Systems LLC
Lois King
Phone: 218-727-3115 Ext. 14
Fax: 218-727-0331
loisk@hirelsystems.com

Manual, Schematic & other info:
http://www.ece.umn.edu/groups/power

Budget
Power Pole Board: $1145.00

University of Minnesota