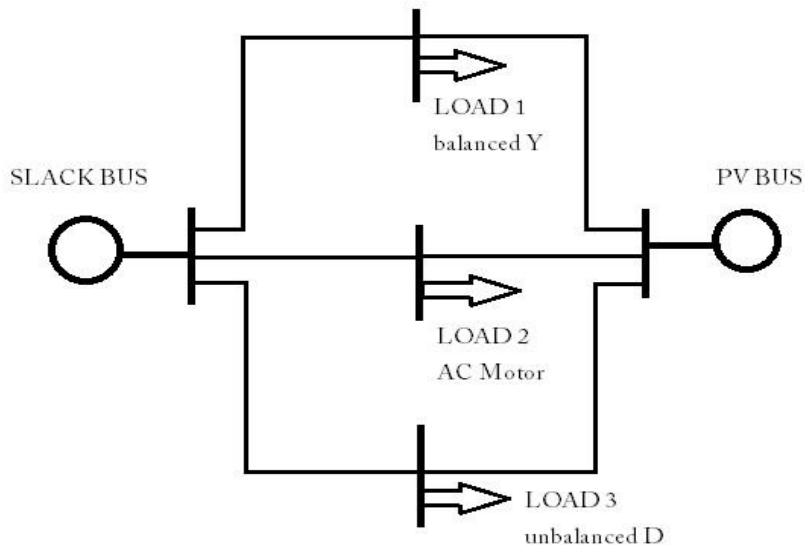


A Proposal for Prototype SCADA

I. One-line Diagram Design for Prototype:



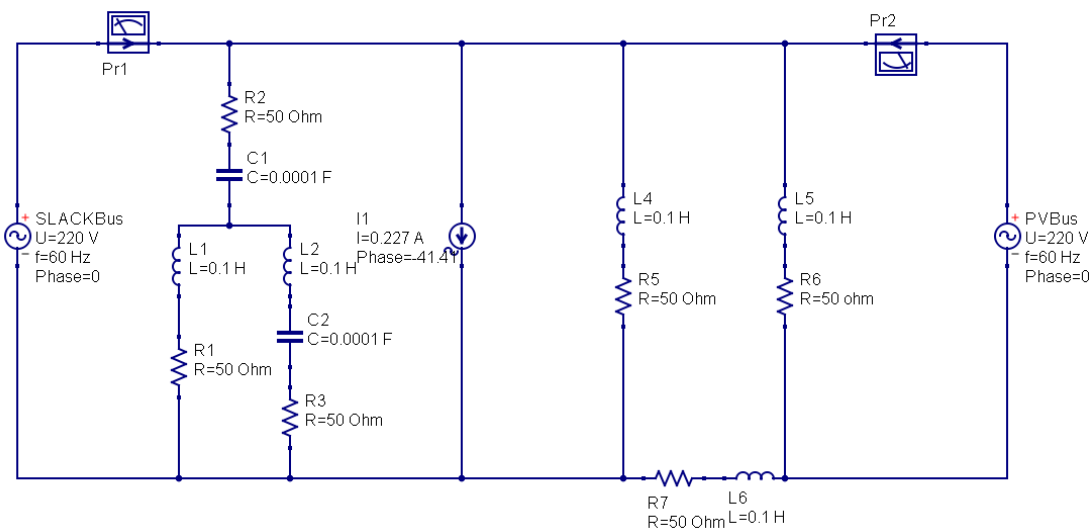
Where:

LOAD 1: balanced-Y Connection

LOAD 2: AC motor – 50 W, 0.75 pf Lagging

LOAD 3: balanced-Delta Connection

II. Equivalent Circuit: (Values may change based on the available materials)



III. Simulation Result:

acfrequency	Pr1.i	Pr2.i
1e-07	1.01e-08 / 90°	6.69 / -0.643°
60	2.82 / 11.1°	5.38 / -37.1°

Where:

Pr1.i – Ammeter 1 = $2.82 \angle 11.1^\circ$ A

Pr2.i – Ammeter 2 = $5.38 \angle -37.1^\circ$ A