

The Masters Program in Electric Power Systems Engineering Presents:

Student Spotlight



Saravana Balaji MS Graduate

"Overall, this internship was a perfect podium to apply academic theoretical knowledge to practical problems in industry and steer towards a solution."

Internship Focus: I recently completed an internship with Veregy Consulting, a San Francisco based Power Systems consulting firm. My primary task was to increase accuracy of Distance to Fault (DTF) based patrols by examining the line sensors deployed within the grid for voltage sag.

How did you find your internship? I found my internship at Veregy using LinkedIn. I connected with Veregy's Managing Partner, showed my interest to intern with them, scheduled an interview and then landed the offer.

Professional Experience: After any event occurred, I processed voltage data and phasor waveforms for Line Risk Events using TAV networks headend. Daily meetings and calls were scheduled to discuss the nature of the previous day's events. This exercise helped me learn how to approach a technical problem and interact with other clients.

As a power systems engineering intern, I assisted the Chief Engineer with power system concepts. I drafted Unsymmetrical Short Circuit Fault (LG, LL, LLG, LLL) formulas for theoretical calculations of post fault voltage and current of the network, and I documented reports. Based on theoretical formulas, a MATLAB code was designed so that user could input the pre-fault values and the software computed the post fault voltage and current values for the user.

Future Plans: I'm working full-time for TRC in the Digital Grid Solution division as a Solution Engineer-I.

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