P.U.R.E. Research Plan Form

Mentee Information
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Date: 02/16/2016

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Date: 02/16/2016

Spring 2016 Research Plan

1.) Write a brief outline of your research plan:
1. Install and configure Matrix Fitting toolbox for MATLAB, courtesy of CENTEE. Use the code to find rational fits of transfer matrices for some electrically measured and simulated microwave networks.
2. Study the Vector Fit technique through independent reading of technical papers and books. Be able to express the strengths and limitations of the technique.
3. Write computer code to check for passivity violations in the rational fit of transfer matrices, using algorithm described in existing literature.
4. Study state-of-the-art in passivity enforcement. Conduct experiments to develop a new method for passivity enforcement.
5. Make a poster of the work done in this project, and give a presentation at the P.U.R.E Symposium.

2.) What do you hope to learn and achieve by the end of the semester?
I wish to be exposed to research and also pick up skills like independent learning of difficult materials and MATLAB.

Mentee Signature: _____________________________ Date: 02/16/2016
Mentor Signature: _____________________________ Date: 02/18/2016