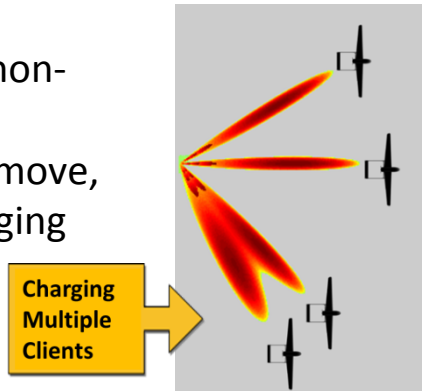


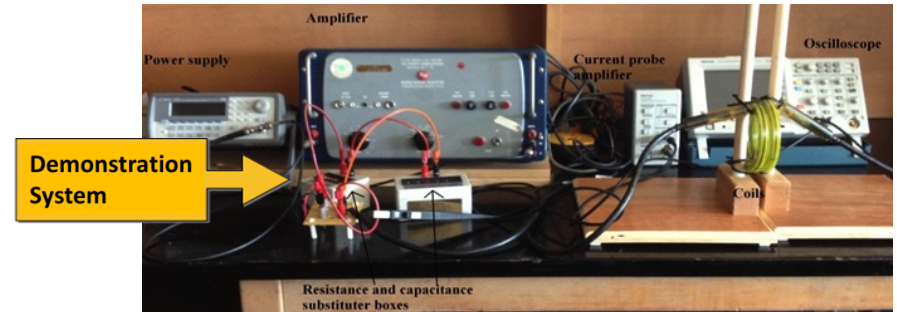
Short Range Wireless Power Transfer (WPT) for UAV/UAS Battery Charging – Phase III

Objective: Demonstration of inductive and radiative wireless power transfer for battery charging.

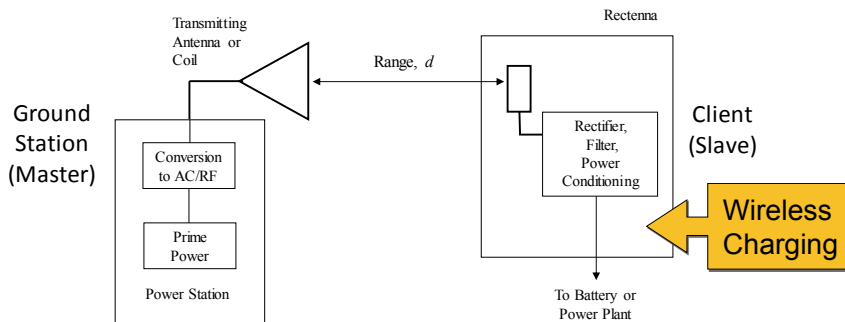
Potential advantages: non-contact, variety of environments, on-the-move, and simultaneous charging of multiple clients.



Proposed work: Optimization of existing battery charging demonstration system using COTS hardware. New near-field smart antenna concepts investigated.



Approach: Efficient systems designed and simulated for radiative and inductive concepts. Hardware developed and tested.



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Funding requested: \$45,000 (faculty/staff labor, hardware purchases, software licenses, travel)

Schedule: Period of performance
1 January 2016 to 31 December 2016

Student involvement: 2 MSEE thesis students

Collaboration: Informally working with SPAWAR