P.U.R.E. Research Plan Form

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Fall 2016 Research Plan

• Write a brief outline of your research plan:
  - I will have weekly meetings with my mentor and discussing my progress in this research
  - I will have access to the lab with the supervision of a graduate but no access to the cleanroom
  - I will learn and produce my own graphene in the lab with the assistance of my mentor
  - I will read adequate amounts of papers and other sources that are related to strain gauges and graphene
  - I will learn to etch graphene into the shape of a coil
  - I will learn to apply materials needed to protect the graphene from contaminants to ensure proper function
  - I will test my material for durability, elasticity, conductivity, and heat tolerance

• What do you hope to learn and achieve by the end of the semester?
  - Understanding the properties of graphene and its potential usage in common applications
  - Make a strain gauge but with graphene as the main ingredient in place of copper
  - Understanding the process to make graphene and the patterns to make it cheaper
  - Earn more experience in professional research and build connections with other researchers and researchers

Mentee Signature (electronically): David Zhang
Date: 9/27/16

Mentor Signature (electronically): Keong Yong
Date: 9/27/16