P.U.R.E. Research Plan Form

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Spring 2018 Research Plan
1) Write a brief outline of your research plan:
   1. Do some research on Android App for sensor data collection:
      a. the App can collect motion data from Android wear device at frequency 50Hz
      b. the App can send data in csv files
      x. If cannot find one, use the resources on Github to build one or use other devices
   2. Implement Kalman filter to predict motion in dynamic system
   3. Implement real-time activity recognition algorithms using Tensorflow

2) What do you hope to learn and achieve by the end of the semester?
   Learn: Android App development, Kalman filter implementation and be familiar with Tensorflow
   Achieve: A program that can use the data collected from devices to predict future motion of the device

Mentee Signature: Yuubo Cao
Date: 2/13/2018
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Date: 2/13/2018