Midterm demo dates
- Between 3/3 and 3/17 on one of the Saturdays (note: 3/10 is the first exam)

Midterm project goal
- Set up a preliminary, but complete flow for the overall project

Midterm requirements
- Installed Linux and VMM on all platforms
- Installed at least one TSDB in VMs
  - RiakTS and potentially KairosDB
- Explored the features and performance of the TSDB(s)
  - Query languages, data retention policies, etc.
  - Raw data read/write performance at different data rates
- Implemented a fault diagnosis system using bearing data and run one instance at a single platform, without considering real time processing
  - Being able to read the data in its original formats, write them to the TSDB
  - Being able to retrieve the data from the TSDB
  - Being able to process the data through the processing workflow
    - DWT (discrete wavelet transformation), high/low passes, neural net training, neural net fault diagnosis
    - For midterm, it will be ok to skip DWT and filter (high/low passes) and directly feed your data to the neural network for training and fault diagnosis
  - Being able to generate diagnosis outcome
    - Whether it is normal, pinion gear fault, wheel gear fault, simultaneous synchronous pinion wheel gear fault, and asynchronous pinion wheel gear fault

Midterm report submissions
- Please refer to the original project description for information