**Job**: Signal and systems engineer / developer to analyze audio files

**Objective**: Develop a python application that will pull audio files from S3 bucket, parse them according to timestamps provided by a JSON file, and extract various features from the clipped audio files. This will include developing a wrapper for OpenSmile to utilize their feature capabilities.

**Milestones:**

1. Script that pulls data and parses according to JSON from S3 bucket **($500, 3-4 days)**
2. Basic feature extraction using non-OpenSmile features. (MFCC, Spectrogram, Fourier Transforms, Windowing, filtering (IIR, FIR). **($500, 3-4 days)**
3. OpenSmile wrapper (python wrapper to utilize OpenSmile APIs) – minimum of 5 features from OpenSmile **($1000, 1-2 weeks)**

**Notes:**

All code will be written with Python 3. I can develop either in Linux or Windows (OpenSmile has support for both). We can eventually use all of OpenSmile features, but I will guarantee delivery of at least 5 for third milestone.

Roman Bogza