California Polytechnic State University

CPE 367

DIGITAL SIGNALS AND SYSTEMS

Final Project: CPE 367: Touch Tone Filter

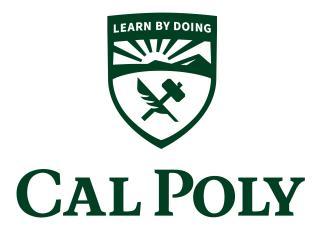
Author:

Brian Mere, Thomas

Choboter

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TODOs

We have $f_s = 4000$ so then we want some say 32 samples per run of our frequency analysis.

We want half of the 32 samples to be overlapped from the previous sample. Thus, 16 samples will be from the previous sample.

- Make a FFT from DFT assuming 2^N sized samples.
- Implement a Goertzel Filter given some ω_0 via https://en.wikipedia.org/wiki/Goertzel_algorithm f_c .

Introductions