

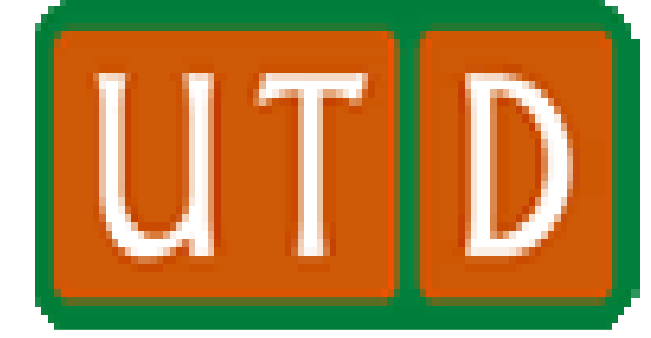
Cochlear Implant Simulator

In Your Head LLC

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Project Goals:

- Intelligible Output
- Real Time Processing
- Multiple Synthesis Strategies
- Fixed vs. Floating Point Analysis

Project Results:

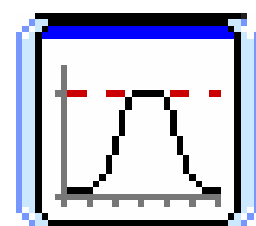
- Simple Vs Advanced GUI
- Fast Processing Time
- Equalizer
- Volume
- N of M
- Modular Design

Project Overview:

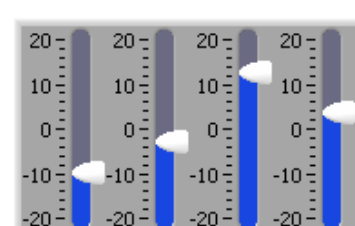
•Input



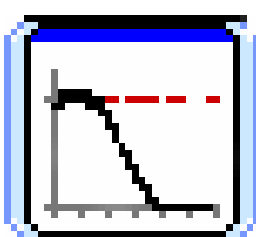
•Bandpass Filter



•Equalizer



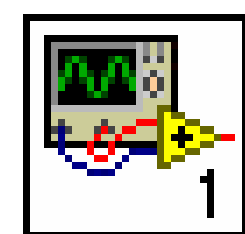
•Lowpass Filter



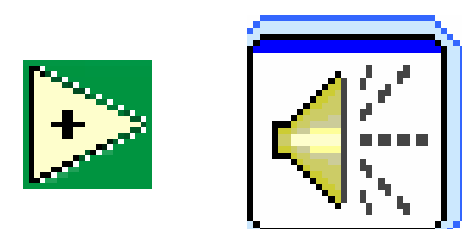
•N of M



•Synthesis



•Output



Project Conclusions/Outcomes:

- Intelligible Output
- Real Time Processing
- 3 synthesis Strategies
- Fixed vs. Floating Point Analysis

- One smoking hot Cochlear Implant