Massachusetts Institute of Technology Department of Electrical Engineering and Computer Science 6.111 - Introductory Digital Systems Laboratory

Final Project Check Off Sheet

Project Title: Local Decoding of Walsh Codes to Reduce CDA Despreading Computation

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TA Signature/Date:

Design



State transition diagrams, Block Diagrams, Code

Functionality

- VGA interface displays graphs showing SNR/BER/power estimates
- Controller steps through decoders and dynamically updates SNR/BER
- Push buttons adjust SNR and (dis)enables feedback loop



- Decoding algorithm steps through test vectors stored in memory
- 3 decoding algorithms use FHT with an optional feedback loop