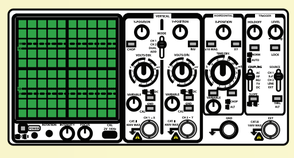
01

HARDWARE TESTING



- Soldered all the components to the student boards, used a socket for the transceiver to be pluggable.
- Simple testing with multimeter and sender/receiver testing with oscilloscope and simple program.
- We found a little bug due to datasheet incorectness and fixed it with two little wires on each student pcb.

90%

02

MODEL CONVERSION

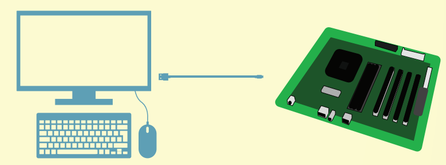
XILINX®

- Converted all our custom build logic to system generator synthesizable logic.
- We made sure everything worked as before with new simulations.

90%

03

MODEL TESTING



- Loading the model on the FPGA, taking in account timing constraints for the transceiver.
- Adjusting parameters in the model to get proper and lossless transmission.
- Adjusting code and blocks if necessary, e.g. extra slow clock signal in sender for transceiver signal.

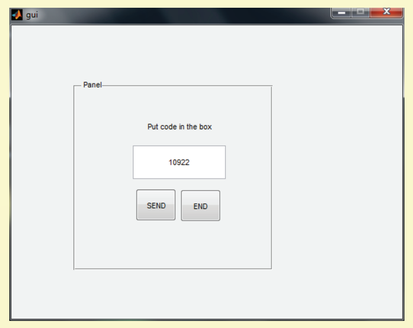
50%

04

GUI & USB INTERFACE

MATLAB

- Sending and receiving messages through GUI in cooperation with USB interface.
- Simplifies high level testing



60%

05

INTEGRATION & EXTRA

- Clear contract with *Brain* about what and how data will be sent.
- Bus implementation will be ready soon.

20%

KU LEUVEN

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