

## Matlab Simulation

Tools: Matlab/Simulink  
Function: Algorithm validation

## Matlab and Vivado hls Co-Simulation

Tools: Matlab/Simulink, Vivado hls  
Function: Hardware specific Simulation

## FPGA-in-the-Loop test

Tools: Matlab/Simulink, Vivado hls,  
Vivado, Gcc Compiler, Zynq  
Function: Hardware Functionality  
Simulation

## Experimental test

Tools: Vivado, Gcc Compiler, Zynq  
Function: Control Alogorithm  
Implementation

