

Minutes – Oct. 31st, 2013

Team New Perspective, University of Idaho

Update on Open CV

- Have tripwires implemented
- Current maximum frame rate of 5 fps
- Need much higher frame rate for speed and position extraction
- Speed it up to 25 fps from .ini file
- SSLAR2 does not have addressing
 - Instead has row counter
- Implement Clock skipping
 - Look at row clock signal
 - Pulse twice
 - Develop something so we can get the row addresses

We need to get Xilinx working on our computers

Will our addressing scheme for the SSLAR2 work with the trapezoidal system?

- We don't need to have the same distance between tripwires, we just need to know the distance between two consecutive tripwires

Maybe apply our sensor to only 200m rather than 400m

Every row has different widths, but it is grouped in sections for the change in depth

Make up for different pixel sizes and capacitances by using different gains on the pixel array sections

Have ways to change the gain and monitor the effects on the picture

We will have dark columns so that we can use them to take an average and get a dark row subtraction

Set up a model so that we can test our set up

- Use photo gates from physics department
- Scale (based on car size) to 400m
- Maybe use a stepper motor to pull the car along the tack
- Maybe buy some photo gates

ACTION ITEMS

John will look into getting photo gates for our car testing project

Get a part list and an idea