Image Flowchart	
Friday, February 23, 2024 11:30 AM	
	UNITY
	Raw VGA RGB image
	MATLAB
	Raw VGA Grayscale
· Sobel filter	
<ul> <li>Threshold → 6 invarized</li> </ul>	FPGA
	Sobel filter Binarized (current Image)
•Save	
— Emply Court Left (am (Sobel Binarized 108)	FP GA
— Empty Court Right Cam (Solal Binatized VCB)	<u> </u>
- (urrent image (sobel Binanizel VBA)	CUTTEN+ Image Output (Background subtracted)
	(Sarry Todan Stoffmer 17)
	find best fit x,y pixel coordinate of control in image
	Save, Repeat for other cam  Given left/right pixel coordinate of controld  find ball (XYZ) in space
	°Is ball XYZ on ground
	o Is ball with bounds