

# ECE 554 Lab 2 Start Guide

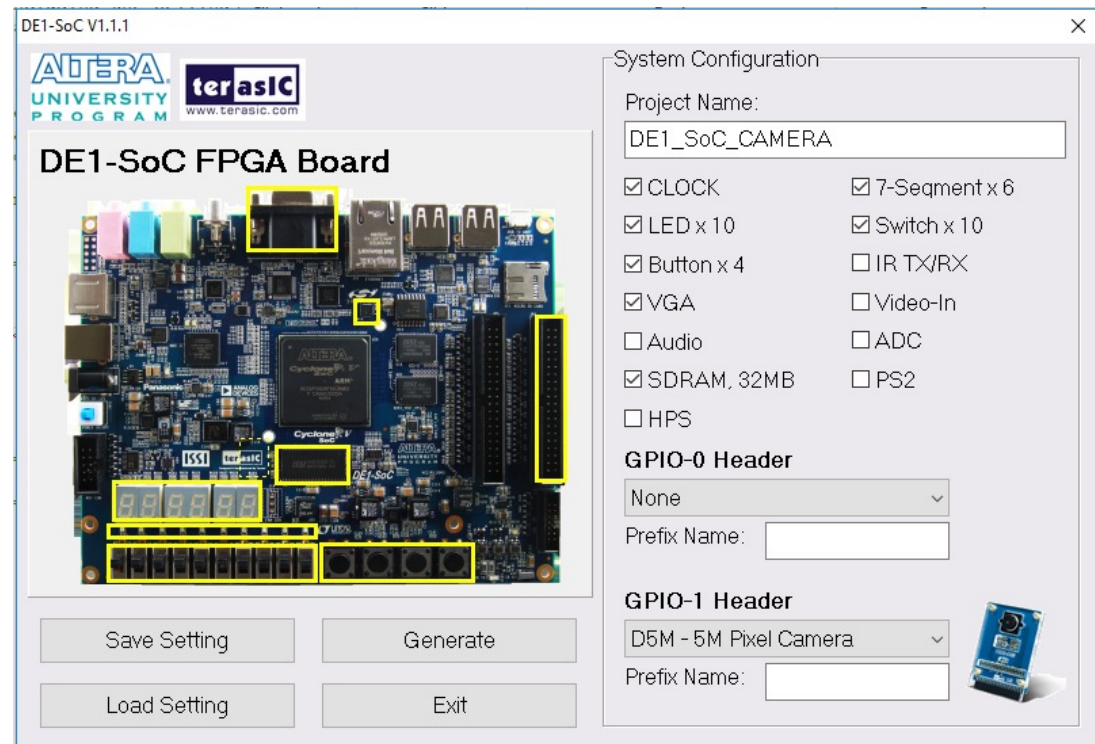


# Generate project file using system builder

- Set project name to “DE1\_SoC\_CAMERA”

- Select

clock  
LED  
Button  
VGA  
SDRAM  
7-segment  
Switch



- Set GPIO-1 to  
D5M-5M Pixel Camera



# Copy to your own folder

- Copy the generated project files to your own Mini Lab 2 folder
- Copy **DE1\_SoC\_CAMERA.v** from the starter kit into your project folder
- Look through **DE1\_SoC\_CAMERA.v** to see what board resources have been used.



# Next Steps

- Integrate your Mini Lab 2 folder with the files of the provided reference kit
- Reference kit shows how to capture with camera and display on the screen
- You add image processing module as described in the file Lab2-MainDocument.pdf



# Test your design

- Switch your design between two filter configurations to check the differences.
- Make sure your design can deal with the edges of images properly.

