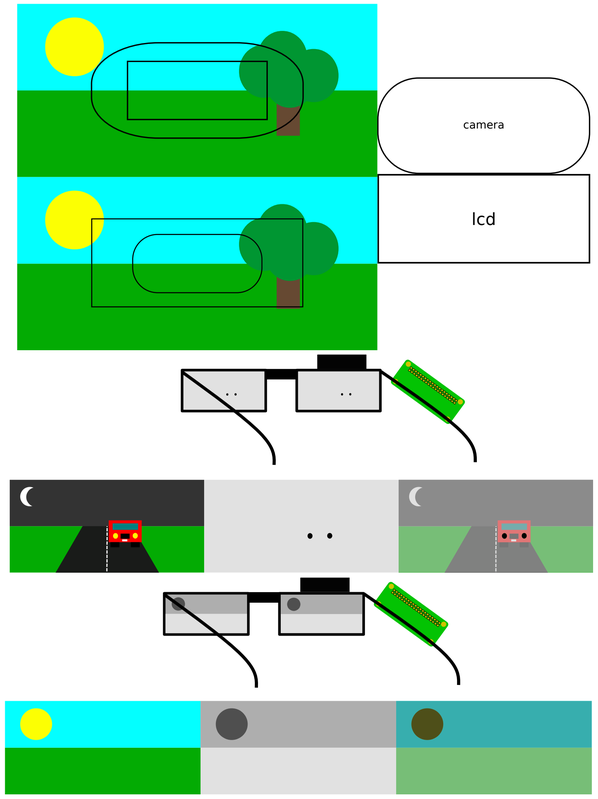
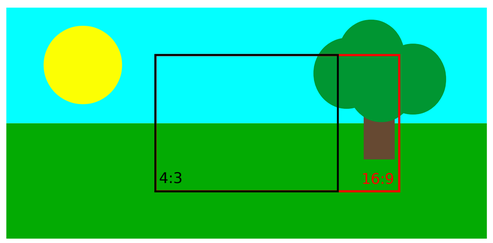
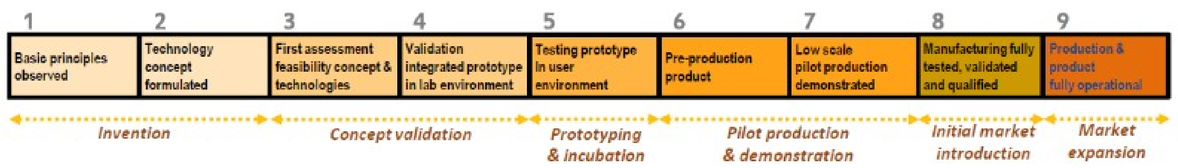
Stage	Criteria	Description
1	Smart shades.	Make a set of smart sun classes.
2	Auto smart shades.	Add LDR to control the opacity.
3	Auto smart point shades.	Add camera to make dark point over bright points.
4	Controllable smart shades.	Add options to swap between modes.
5	Driving/Safety improvements.	Fail safe and auto react to headlights.

Button	Tap	hold
Front	Scroll tint	Reset tint
Side-front	Scroll mode	Reset mode
Side-back	Debug	Turn off





According to the European Association of Research and Technology Organisations (EARTO) technology readiness level for prototyping development cycles, I have met level 4 and am pushing level 5 criteria



Pi0to Chromic

Pi0to Chromic site

Telegram Bot

Command	Parameters	Description
help	N/A	Show help menu.
pickcolour	Pick from list of tints.	Preset tints/colours.
pickmode	Pick from list of modes.	Change mode.
tint	Percentage	Sets tint of lenses.
image	N/A	Shows most recent image.
up	N/A	See if the system is up.
temp	N/A	See CPU temp.
start	N/A	Starts shades.
stop	N/A	Stops shades.
exit	Admin only	Exits program.
reboot	Admin only	Reboots system.
halt	Admin only	Shutdown system.
uprecords	N/A	See up time.
debug	N/A	Toggles debug.
colourset	fore/back@0/255,0/255,0/255	Set specific colour.
allowallids	Admin only	Toggles if admin id is required.

Frame Development Cycle

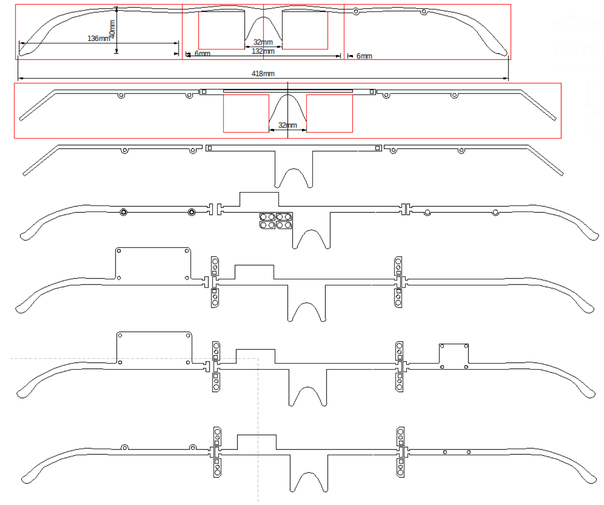


FIGURE 5: PATH OF LIGHT FOR OFF PIXEL (POSITIVE IMAGE)

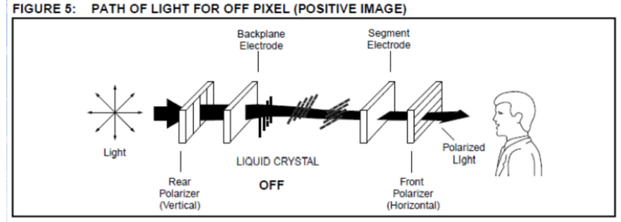
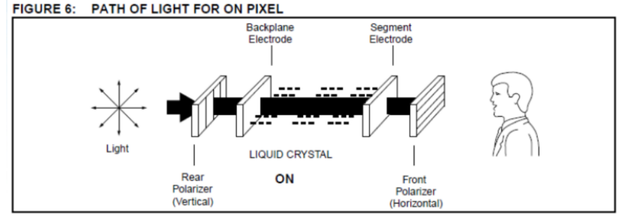



FIGURE 6: PATH OF LIGHT FOR ON PIXEL