

TASK TITLE	Project Proposal		Design Presentation				Interim Demo				Final Presentation	
	W4	W5	W6	W7	W8	W9	W10	W11	W12	W13	W14	
	9/20	9/27	10/4	10/11	10/18	10/25	11/1	11/7	11/15	11/22	11/29	
Hardware												
Acquire Ultra96	JSG											
Acquire Peripherals	JSG											
Research I/O	JSG	JSG	JSG + KB									
Implement I/O			KB + JSG	KB	KB	KB	KB	KB				
Test I/O			JSG + KB	JSG	JSG	JSG	JSG	JSG				
Get Comms between ARM Core and FPGA		JSG										
Write Math Functions for CNN in Vitis HLS				JSG	JSG	JSG	JSG					
<i>Get full-sized model to synth on the board properly</i>								JSG	JSG	JSG	JSG	
<i>Optimise tile sizes</i>								JSG	JSG	JSG	JSG	
<i>Speed up w/ HLS pragmas</i>								JSG	JSG	JSG	JSG	
Validate HW				KB	KB	KB	KB	JSG+KB	JSG+KB			
Port SW model onto FPGA							JSG					
Validating FPGA model against SW model							KB	KB	KB			
<i>Time Benchmarking</i>								KB	KB			
<i>UI</i>								KB	KB	KB	KB	
<i>screen display</i>								KB + JSG	KB + JSG	KB + JSG	KB + JSG	
<i>video routing</i>								KB	KB	KB	KB	
Software												
Research DSP vs CNN models	ALL											
Acquire AWS Credits		KB										
Setup AWS		KB	KB + JL									
Acquire Dataset	JL											
Familiarize VMAF Documentation	JL	JL										
Research specific CNN models		KB + JL	KB + JL									
Benchmark VMAF		JSG + JL										
Research SSIM	KB											
Benchmark SSIM		KB + JL										
Benchmark CNN Models		JL + JSG	JL									
Develop Python Code for Training			JL + KB	JL	JL							
Train Model				JL	JL	JL	JL					
Test/Evaluate Model				JL	JL	JL	JL					
Further optimizing weights (keeping hyperparams const so HW model stays const)							JL	JL	JL			
Misc												
Slack/Slop											ALL	
Milestones												
Proposal Presentation	JSG											
Design Presentation			KB									
Design Review Report			ALL	ALL								
Interim Demo							ALL	ALL				
Final Presentation												JL

How to Read
 Colour = Assignee
 1st Initials = Owner
 2nd Initials = Partner

Legend
 James = Blue, JSG
 Josh = Red, JL
 Kunal = Green, KB