## ECE554 SP25 Air Defense Project Gantt Chart and Progress Tracker

PROJECT TITLE	Air Defense Capstone Project	COMPANY NAME	UW-Madison ECE554				
PROJECT MANAGER		PROJECT START DATE	2/25/2025				

WBS TASK TITLE	TASK DESCRIPTION	DEPENDENCIES	TASK OWNER	PCT OF TASK COMPLETE	SCHEDULED START	SCHEDULED FINISH	ACTUAL START	ACTUAL FINISH	FINISH	DURATION	W1	W2	W3	W4	W5	W6 V	V7 W8	W9	W10 W	
									VARIANCE	IN DAYS	2/25	3/4	3/11	3/18	3/25	4/1 4	/8 4/15	4/22	4/29 5	
1.0 Arcl	h Review				100%	2/25/2025	3/4/2025	2/25/2025	3/3/2025	-3	5									
1.1 High	Level Schematic	Interfaces between different project components		Jake	100%	2/25/2025	3/4/2025	2/25/2025	2/25/2025	-7	1									
1.2 Prod	cessor Design Decisions	clearly lay out what the proc will be responsible for		Team	100%	2/27/2025	3/4/2025	2/25/2025	3/3/2025	-3	5									
1.4 Obje	ect Detection Classification	specify the requirements for object detection		Jake, Sam, Harrison	100%	2/27/2025	3/4/2025	2/25/2025	3/3/2025	-3	5									
1.5 DVI	Monitor Output	understand camera requirements for higher frame output		Jake, Sam, Harrison	100%	2/27/2025	3/4/2025	2/25/2025	3/3/2025	-3	5									
2.0 Mici	ro Arch Review		All of milestone 1			3/4/2025	3/11/2025	3/4/2025	3/13/2025	2	8									
2.1 Can	nera Modules	Develop additional camera modules required for project		Jake, Sam, Harrison	100%	2/27/2025	3/11/2025	3/3/2025			-32656									
2.2 Mot	or Controller	Develop verilog for pan-tilt of laser/camera		Nathan, Cullen	100%	2/27/2025	3/11/2025	3/3/2025			-32656									
2.3 Mote	or Mount Hardware Design	Design hardware for how hardware movements will occur		Nathan, Cullen	100%	2/27/2025	3/13/2025	3/3/2025			-32656									
2.4 Prod	cessor I/O	Develop high level interfaces between various modules		Jake	100%	2/27/2025	3/13/2025	3/3/2025			-32656									
2.5 Mot	or Prototype			Nathan	100%	2/27/2025	3/11/2025	3/8/2025	3/11/2025		2									
2.6 YOL	.O Training			Harrison	100%	2/27/2025	3/11/2025	3/3/2025	3/9/2025	-3	5									
3.0 Bas	ic Building Blocks Imp				100%	3/11/2025	3/20/2025	3/11/2025			-32662									
3.1 Obje	ect Detection Testing	Have camera proc modules onto FPGA, verify approx function	Camera Modules		100%	3/4/2025	3/20/2025				0									
3.2 Prod	cessor Validation	Interface all modules together, verify functionality	Processor IO		100%	3/4/2025	3/20/2025				0									
3.3 Mot	or Unit Testing	Have motor contorller verilog moving hardware	motor modules		100%	3/11/2025	3/18/2025				0									
3.4 Mot	or Mount Proof of concept		Purchased all motor components		100%	3/4/2025	3/20/2025				0									
3.5 Con	nplete System Imp				100%	3/20/2025	4/15/2025	3/20/2025			-32669									
3.6 Mou	inting Hardware Dev and Testing	Validate transfer function from camera coordinates to physical position	Motor modules tested		100%	3/20/2025	4/15/2025				0									
4.0 Full	Unit Testing and Validation	Sample demos and debugging			100%	3/27/2025	4/15/2025				0									
4.1 Prod	cessor Improvements	Make processor improvements under the requirement for more spee	d, better accuracy, etc		100%	4/8/2025	4/15/2025				0									
4.2 Pos	ter Design				100%	4/15/2025	4/25/2025	4/15/2025			-32687		$\Box$							
4.3 Syst	tem Videos/images	Capture documentation of fully functioning demo			100%	4/15/2025	4/25/2025				0									
		Produce diagrams for the system			100%	4/15/2025	4/25/2025				0									