



MOMENTUM REPORT

WEEK OF DEC. 16, 2022

This Dash Report represents the status of the LogicPlum development of the L3 Harris platform as of the publication of this report.

Completed refers to what has been completed.

Active refers to ongoing items.

New refers to upcoming scheduled work.

The projected completion date for L3 Harris is Dec. 1, 2022

NOTE: **FE** = Frontend, **BE** = Backend, **CI/CD** = Continuous Integration/Continuous Development, **API** = Application Programming Interface, **UI** = User Interface

CLOSED ITEMS

Task ID	Report Title	Status	Date
81876364	Run light model and advanced model on videos shared (Sbux, aerial)	Completed	Aug. 10, 2022
81877761	Explore detection improvment with cropped zoom on the POI	Completed	Aug. 16, 2022
81877772	Preprocess video formats , enhance computation time	Completed	Aug. 17, 2022
81977776	Check if image processing techniques will improve object detections with bad quality / or zoomed video captures	Completed	Aug. 26, 2022
82085696	1. image dataset scraping	Completed	Aug. 29, 2022
82086019	image dataset cleaning	Completed	Aug. 31, 2022
82085585	image dataset annotation	Completed	Aug. 31, 2022
82085653	training	Completed	Sept. 2, 2022
82144970	Scrape 300 images per class	Completed	Sept. 6, 2022
82144986	Enhance AI detection with new inference weights V7	Completed	Sept. 7, 2022
82144949	Sort and Filter dataset	Completed	Sept. 7, 2022
82144985	Annotation	Completed	Sept. 12, 2022
82291358	ensure GPU configuration is correct	Completed	Sept. 12, 2022
82392483	create object detection log creation	Completed	Sept. 20, 2022
82392629	check change from dict to numpy time execution	Completed	Sept. 21, 2022
82416007	add class filter inside yolo v4	Completed	Sept. 22, 2022
82448469	check V7 with different deepsort codes to check speed performance vs. V4	Completed	Sept. 23, 2022
82448376	implement dict instead of pandas df	Completed	Sept. 23, 2022
82415969	implement numpy on post processing	Completed	Sept. 23, 2022
82392342	investigate color detection reducing time	Completed	Sept. 23, 2022
82483842	sort the list of sub processes and function inside postprocessing by computation time	Completed	Sept. 27, 2022
82483400	transform all pandas dataframes into numpy arrays manipulation	Completed	Sept. 28, 2022
82528172	circle size and color	Completed	Sept. 29, 2022
82528217	make circle around POI always visible when AI stops object detection	Completed	Sept. 30, 2022
82587273	Benchmark different AI (V4, V5 vs. V7)	Completed	Oct. 6, 2022
82704205	add flag to change fps processed and output	Completed	Oct. 11, 2022

Task ID	Report Title	Status	Date
82704412	create post processing + v7	Completed	Oct. 12, 2022
82704730	Correct logs	Completed	Oct. 13, 2022
82704631	Split the pipeline into two files (detection+tracking)//(postprocessing)	Completed	Oct. 13, 2022
82762916	Create count of objects on current frame	Completed	Oct. 19, 2022
82781192	Force process to stop when streaming stops	Completed	Oct. 19, 2022
82781264	Correct POI tracking if object detection changed	Completed	Oct. 21, 2022
82841707	build trajectory estimation from previous POI location	Completed	Oct. 21, 2022
82948060	Enhance and review log creation	Completed	Oct. 28, 2022
82841259	Implement Live Streaming	Completed	Nov. 2, 2022
82483342	Showing the detected object count in near real-time	Completed	Sept. 21, 2022
82483656	Create Python APIs for Observation log	Completed	Oct. 3, 2022
82684031	1st Version New Design in Windows Application	Completed	Oct. 10, 2022
82484051	Create UI Layout for Desktop App - Match with existing UI in web	Completed	Oct. 14, 2022
83428484	Package Installation	Completed	Nov. 11, 2022
83429210	Creating an executable	Completed	Nov. 16, 2022
83429275	Creating the improved statements for the observation log	Completed	Nov. 18, 2022
83428855	Testing Phase	Completed	Nov. 18, 2022
83428978	Image Docker	Completed	Nov. 21, 2022
83429377	Report Generation	Completed	Dec. 1, 2022

ACTIVE ITEMS

Task ID	Report Title	Status	Date
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No records available !

NEW ITEMS

Task ID	Report Title	Status	Date
82506414	multi-processing (detection + tracking) on GPU and (log creatoin) on CPU	New	Sept. 28, 2022
82841886	implement tracking postprocessing	New	Oct. 31, 2022