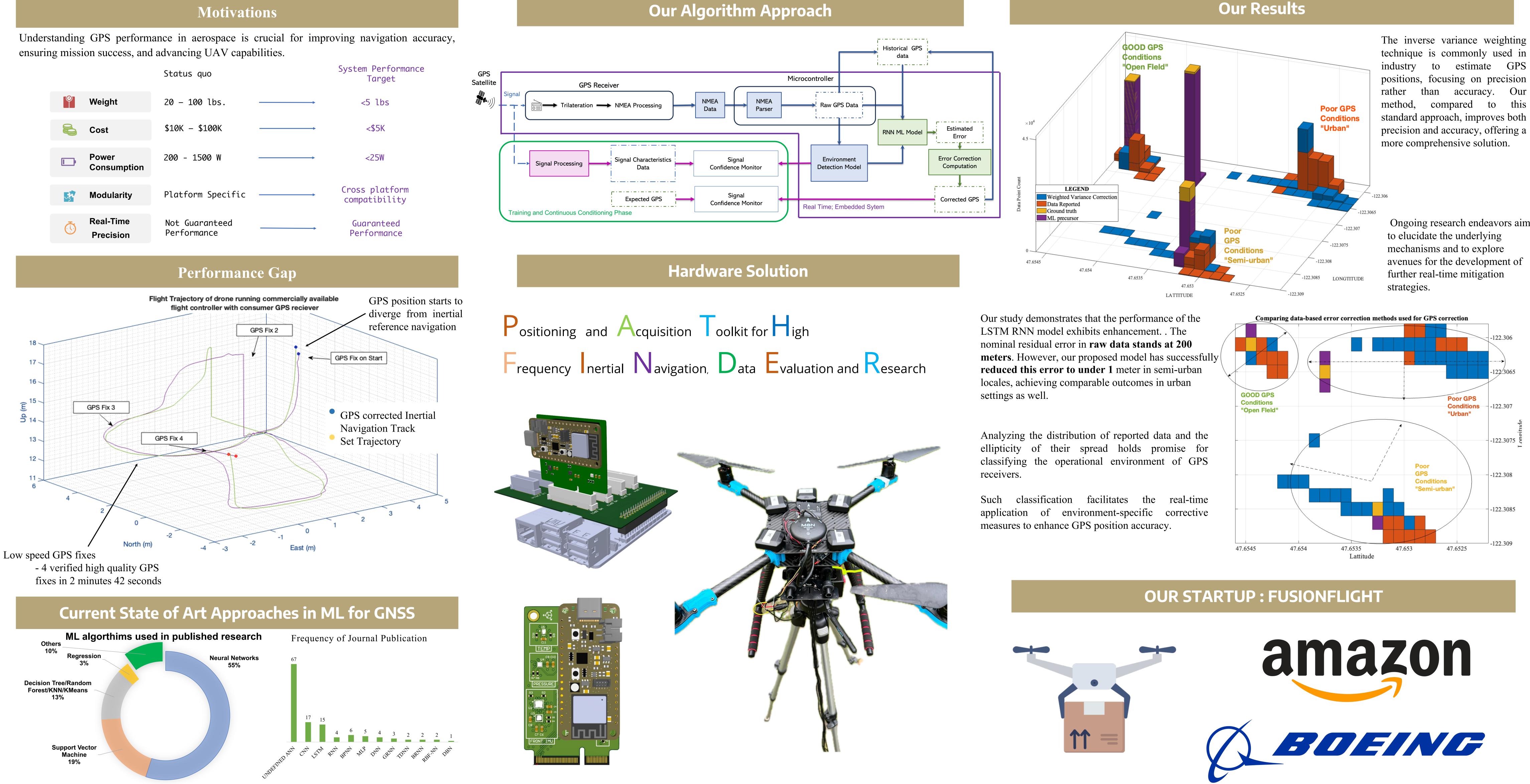
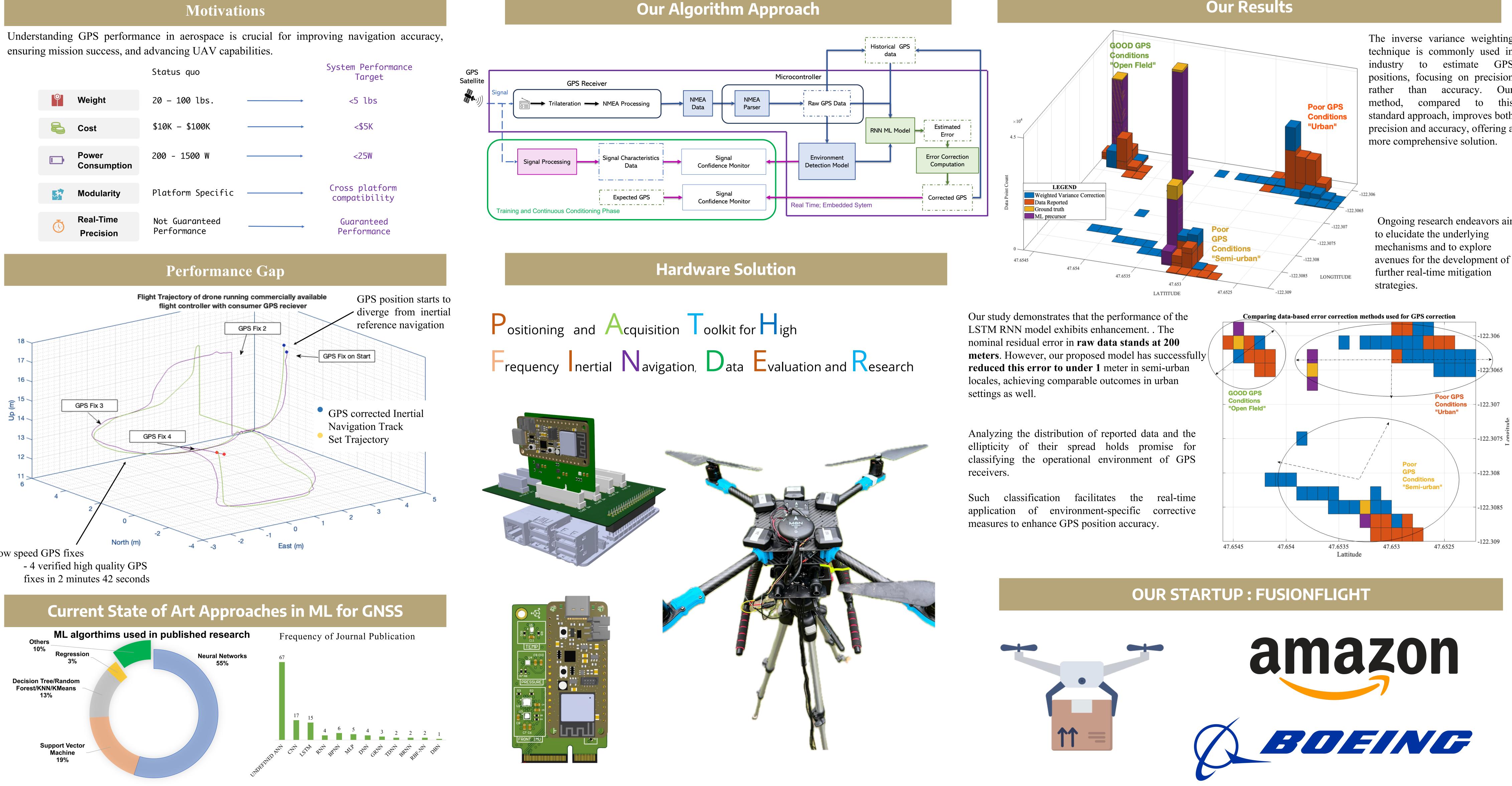


# **DEVELOPING AND TESTING GPS ENABLED INERTIAL REFRENCE NAVIGATION SYSTEM FOR NEXT GENERATION FLIGHT** COMPUTERS **STUDENTS: GOKUL NATHAN**

	Status quo		System Perform Target
Weight	20 – 100 lbs.		<5 lbs
Cost	\$10K — \$100K		<\$5K
Power Consumption	200 - 1500 W		<25W
Modularity	Platform Specific		Cross platfor compatibility
Real-Time Precision	Not Guaranteed Performance		Guaranteed Performance
	Cost Power Consumption Modularity Real-Time	Weight20 - 100 lbs.Cost\$10K - \$100KPower Consumption200 - 1500 WModularityPlatform SpecificReal-TimeNot Guaranteed	Weight20 - 100 lbs.Cost\$10K - \$100KPower Consumption200 - 1500 WModularityPlatform SpecificReal-TimeNot Guaranteed







A. Siemuri Et Al., "A Systematic Review of Machine Learning Techniques for GNSS Use Cases," IEEE Transactions on Aerospace and Electronic Systems, 2022





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**ADVISOR: SEP MAKHSOUS** 



estimate GPS focusing on precision accuracy. Our to this

Ongoing research endeavors aim

