

STORAGE VISIONS® 2018

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AN ENTERTAINMENT STORAGE ALLIANCE™ EVENT



Karim Kaddeche, CEO and Founder, L2 Drive

TITLE

After Helium, Vacuum HDDs Promise Higher Capacities, Longer Life

ABSTRACT

The highest capacity hard disk drives from all manufacturers today are filled with Helium instead of air. Helium's much lower density has allowed for more platters and lower power consumption in HDDs. L2 Drive is proposing taking this proven concept to the next logical step: vacuum HDDs. In this session, we will discuss how it will be possible to "fly" the read/write heads within a few nanometers of the disks without the help of an air bearing and how we will overcome the associated technical difficulties. We will also discuss the advantages that vacuum to HAMR and MAMR and the impact it will have on the road map for increasing the areal density and total capacity of HDDs.

BIOGRAPHY

Mr. Karim Kaddeche, the co-founder and CEO of L2 Drive, is a serial entrepreneur in southern California. He co-founded a software company, GeoMicro, in the late nineties with Mr John Wang. GeoMicro was one the early pioneers in the domain of location based services and was the first to offer GPS navigation on mobile phones including real time traffic, weather and local search features. These services were an early example of what we now call "Big Data", because they involved analysis and dissemination of very large datasets. After selling GeoMicro to a public company, John and Karim decided to leverage their experience building high performance data storage systems at GeoMicro; they founded L2 Drive, Inc with the vision of bringing higher IOPs, and capacity, to all storage system. Four years and 9 US Patents later, L2 drive has recently emerged from stealth mode by announcing their vacuum HDD technology at TMRC 2018.