

Predictive Maintenance of Hardware

Project Technical Lead:

Project Committers detail:

Committer	Committer Company	Committer Contact Info	Committer Bio	Committer Picture	Self Nominated for PTL (Y/N)
Vijay Pal	palcnetworks	vijay.pal@palcnetworks.com M: +91-7893028220	Innovative Leader with 20+years of experience in software development for Networks and security platforms. Expert in advanced software development methodologies, tools and processes contributing to the design and roll-out of cutting-edge software applications. Known for excellent troubleshooting skills – able to analyze code and do re-engineering of legacy code as well as opensource code for high performance delivery .		Yes
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Presentation



Predictive_Maint..._BP_proposal.pdf

The following is base ppt file for above pdf.



Predictive_Maint...BP_proposal.pptx

Use Case Details

Attributes	Description	Informational
Type	New Blueprint for Predictive Maintenance of Hardware at the Edge	
Blueprint Family - Proposed Name	AI Edge Blueprint Family	
Use Case	Provide Predictive Maintenance of Hardware (HDD ,sensors , Optics ,interfaces , CPU etc) in advance before system failure	
Blueprint proposed Name	Predictive Maintenance	
Initial POD Cost (capex)	Leverage Unicycle POD - less than \$150k	
Scale & Type	Up to 100K devices x86/ARM server or deep edge class	
Applications	Our AI based Predictive Maintenance solution has application and usage in every aspect networks / data center's / compute nodes /autonomous robots and cars.	

Power Restrictions	Less than 10Kw	
Infrastructure orchestration	Docker 1.13.1 or above and K8s 1.10.2 or above- Container Orchestration OS - Ubuntu 22.x	
SDN	-	
Workload Type	Any	
Additional Details	Kafka message bus and Webhook/Nginx middleware Kubeless function management engine over Kubernetes PMC Client with network connectivity GUI based installer for Functions	