

The AI Edge: School/Education Video Security Monitoring

Project Technical Lead:

Liya Yu, Baidu, Elected 04/13/21

Blueprint species:

Use Case Attributes	Description	Informational
Type	The AI Edge	
Blueprint Family	New	
Use Case	Safety, security, and surveillance	
Blueprint proposed Name	The AI Edge	
Initial POD Cost (capex)	Leverage Unicycle POD - less than \$150K	
Scale & Type	up to 4 servers, x86/ Arm server or deep edge class With nVIDIA Telsa P4/T4 GPUs	
Applications	1. Small scale IoT data aggregation and machine learning platform 2. Small scale deep learning models training for video data 3. Model training for AcumosApps	
Power and memory restrictions	Less than 10Kw K8s 1.12.5 or above- Container Orchestration OS –CentOS 7.0 or above	
Infrastructure orchestration	Docker 1.13.1 or above	
SDN	Calico container networking, or OVS-DPDK	
Dataplane	VPP	
Workload Type	Containers	
Additional Details	Acumos and EdgeX interfaces will be connected in this case	


Attachment:



The AI Edge Blueprint-V1.2.pdf

As per the Akraino Community process and directed by TSC, any person wishing to be PTL shall self nominate themselves by putting a Y in the a blueprint which has only one nominee for Project Technical Lead (PTL) will be the elected lead. If there are two or more, an election will take place.

Self Nominations begin on 20 March 2021 and will conclude on 27 March 2021

Committer	Affiliation	Committer Contact Info	Committer Bio	Committer Picture	Self Nominate for PTL (Y/N)
Hechun Zhang	Baidu	zhanghechun@baidu.com zhanghechun@gmail.com	Seasoned MEC and 5G Solution Architect of Baidu, with impressive 9 years' experience in ICT industry. Project Manager of ODCC Edge Computing Group.		
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Contributor	Affiliation	Committer Contact Info	Committer Bio	Committer Picture	Self Nominate for PTL (Y/N)