Y20 EdgeX Challenge Shanghai

Edgex Challenge Shanghai 2020 is an international hackathon event on EdgeX, co-hosted by LF Edge and STCSM (Science and Technology Committee of Shanghai Municipality, http://stcsm.sh.gov.cn/). It's jointly organized by Intel, Innospace, VMware, Dell Technologies, HP, Canonical, ThunderSoft, and supported by Tencent and IOTech.

The event aims to build a learning and sharing platform about deploying IoT & EdgeX Foundry to heal industry problems along with digital transformation. We focuse on pain points of IoT industries, and EdgeX use cases in retail, hospitality, banking, education, manufacturing, energy, cities/campus, and other vertical segments. Through creation, development and optimization of EdgeX based solutions, the participants are required to effectively combine technologies with industry best practices to enable real case demos, and commercial solutions if possible.

Time: Jul 3rd ~ Oct end, 2020



Tracks:

- Commerce (Retail, Hospitality, Banking, Education, healthcare, cities/campus, …),
- Industrial (Factories, Power, Oil/Gas, Utilities)

Judge Criteria:

Criteria	Preliminary Round	Final Round
Creativity, use of Computer Vision	30	30
Impact, Viability, and Usefulness	30	30
Simplicity	30	30
Wording & showcase	10	10
# of votes on social media (additional points for final phase)		max 20 points

Prizes:

Prizes	Commerce	Industrial	Special prize for EdgeX+CV
1st	20,000 RMB *1	20,000 RMB *1	10,000RMB*2
2nd	10,000 RMB *1	10,000 RMB *1	
3rd	5,000 RMB *1	5,000 RMB *1	

Useful links:

- Event registration website: http://edgexchallenge.shanghaimakers.com/
- All keynote videos: https://space.bilibili.com/550595847/channel/detail?cid=138775
- Playback of kickoff session in Jul 3rd morning: https://wx.vzan.com/live/tvchat-1971454957?shareuid=319678486&vprid=0&sharetstamp=1593694122085&from=groupmessage&isappinstalled=0#/ (combined with opening of "Shanghai Makers 2020")

- Playback of information session in Jul 3rd afternoon: https://VMware.zoom.us/j/93350155439?pwd=OTNoUjVVSTRGUWpadjVpUkthOWV4UT09 passcode: 12345
- Blog announcement on LF Edge to call for registration: https://www.lfedge.org/2020/07/14/calling-all-innovators-youre-invited-to-compete-in-the-edgex-foundry-challenge-shanghai-2020/
- Blog announcement on shortlist of 2nd stage of EdgeX Challenge Shanghai: https://www.linkedin.com/pulse/shortlist-final-stage-edgex-challenge-shanghai-announced-melvin-sun/

List of teams and use cases for 2nd round contest:

In the preliminary judging stage, judges and experts diligently reviewed each of the submissions based on the criteria set ahead of the EdgeX challenge. 10 teams have been selected from 27 in the Commerce track, 7 teams selected from 13 in the industrial track. These 17 teams will enter next stage of the EdgeX challenge. On Friday afternoon, July 24, the organizers held an online webinar with expert judges and the teams, to witness announcement of the short list.

- Commerce track

#	Name of the team	Use Cases
c03	AI Cooling	Building automation

c05	NT fighting force	POS with weight scale & Cameras
c07	Starlink team from JD.com	Retail store heatmap & monitoring
c08	Sugarinc Intelligence	Smart building
c10	Five Card Stud fighting force	Automobile 4S (sales, service, spare part, survey) store
c16	USST, YES!	Retail store edge
c18	HYD Miracle Innovation	Apparel store edge computing
c19	Breakthrough Labs	Scenic Intelligent Navigation
c26	i-Design	Edge-cloud based far ocean intelligent logistics/monitor
c27	DreamTech	Mortgage assets monitoring based on blockchain +edge computing

- Industrial track

#	Name of the team	Use Cases
i01	Baowu Steel	Defects detection in steel manufacture
i06	Jiangxing Intelligence	Intelligent Edge Gateway for Industrial
i07	VSE	Drivers school surveillance & analytics
i08	CyberIOT	Guardians of electrical and mechanical equipment
i09	Smart eyes recognize energy	CV based intelligent system of meters recognition
i10	Power Blazers	autotuning system for orbital wind power system
i13	EVS	Smart warehouse

Winners list

Commerce Track

Award	**Name of team**	**Use Cases**
1st	**i-Design**	**Edge-cloud based far ocean intelligent logistics/monitor**
2nd	**HYD Miracle Innovation**	**Smart apparel store**
3rd	**AI Cooling**	**Building automation**
3rd	**Fangtang Intelligence**	**Smart building management**
AI	**Starlink team from JD.com**	**Retail store heatmap**
Merit	DreamTech	Mortgage assets monitoring based on edge computing blockchain
Merit	USST,YES!	Retail store edge
Merit	Breakthrough Studio	Scenic intelligent navigation
Merit	Five Card Stud fighting force	Automobile 4S (sales, service, spare part, survey) smart store

Industrial Track

Award	**Name of team**	**Use Cases**
1st	**Power Blazers**	**Autotuning system for orbital wind power system**
2nd + AI	**Smart eyes recognize energy**	**CV based intelligent system of meters recognition**
3rd	**Jiangxing Intelligence**	**Intelligent Edge Gateway for Industrial**
Influential	**Baowu Steel**	**Defect detection in steel manufacturing**
Merit	CyberIOT	Guardians of electrical and mechanical equipment

Merit	VSE	Drivers school surveillance & analytics

Training Resources:

Online training sessions on EdgeX for EdgeX Hackathon prospective participants

- 1) Feb 28th : 14:00-15:00, Create EdgeX new Device Services,by VMware (Registration, English), (Playback)
- 2) Mar 6th: 14:00-15:00, Writing EdgeX export service, and scheduling plan,by VMware (Registration, English), (Playback)
- 3) Mar 13th: 14:00-15:00, Add devices and service monitoring in EdgeX, by ThunderSoft (Registration, English), (Playback)
- 4) Mar 20th: 14:00-15:00, Use EdgeX device service, Nodered,by IOTech (Registration, English), (Playback)
- 5) Mar 27th: 14:00-15:00, Use OpenVINO with EdgeX for Edge Inference,by Intel(Registration, English), (Playback)
- 6) Apr 2nd: 14:00-15:00, EdgeX Hackathon station setup(HW,SW, Tools, etc.), by Intel (Registration, English), (Playback)