

Education. Experience. Innovation

pH.D. Zenoviy Veres Solution Architect Assistant Professor @ NULP







IoT @ NULP

Specialty: Computer Science & Information Technology

Educational program: System engineering (Internet of things)

Department: Computer systems of automation

734 Application forms received

56 students

18 students received government funding

3 students received scholarships from

Lviv IT Cluster & Cypress

41:1 competition for government funding

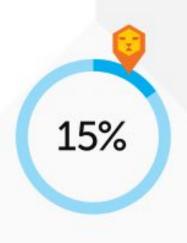
Lviv IT Cluster



http://itcluster.lviv.ua

Lviv IT: key facts





+20%



15000+ professionals work in IT in Lviv

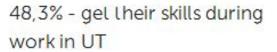
15% of Ukrainian IT people work in Lviv

20% predicted annual growth in the industry

60 out of 1000 working population in Lviv are employed in ITi

Lviv IT: key facts







56% are software developers

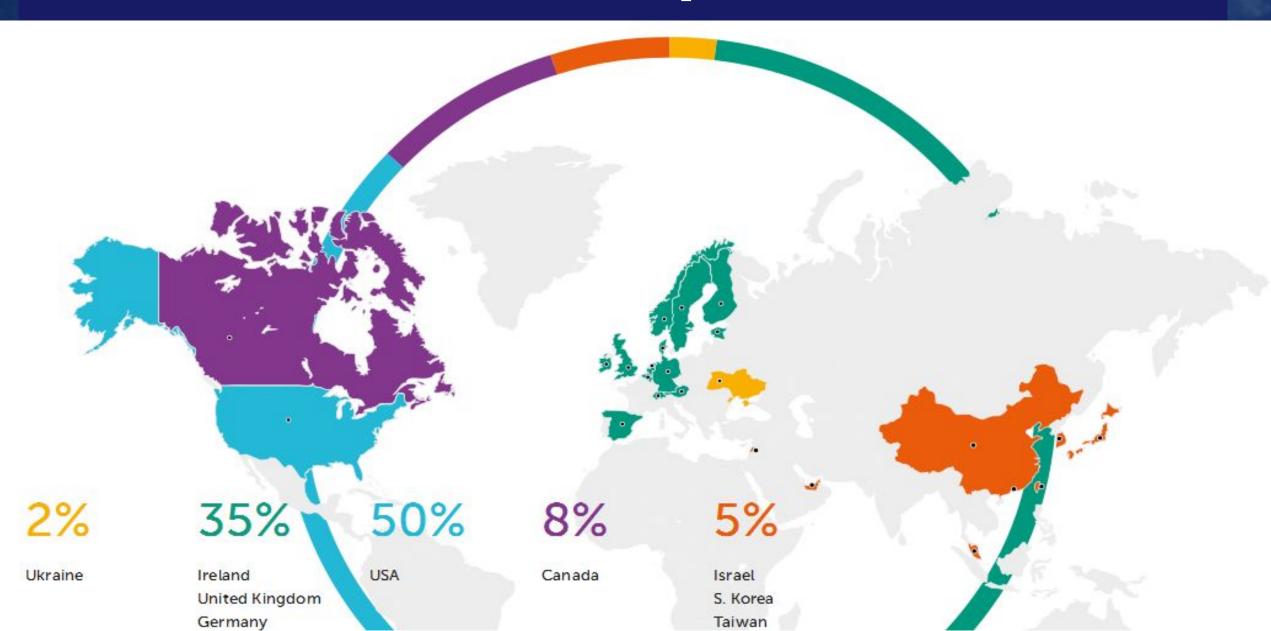


18,7% IT specialists work over their own startup

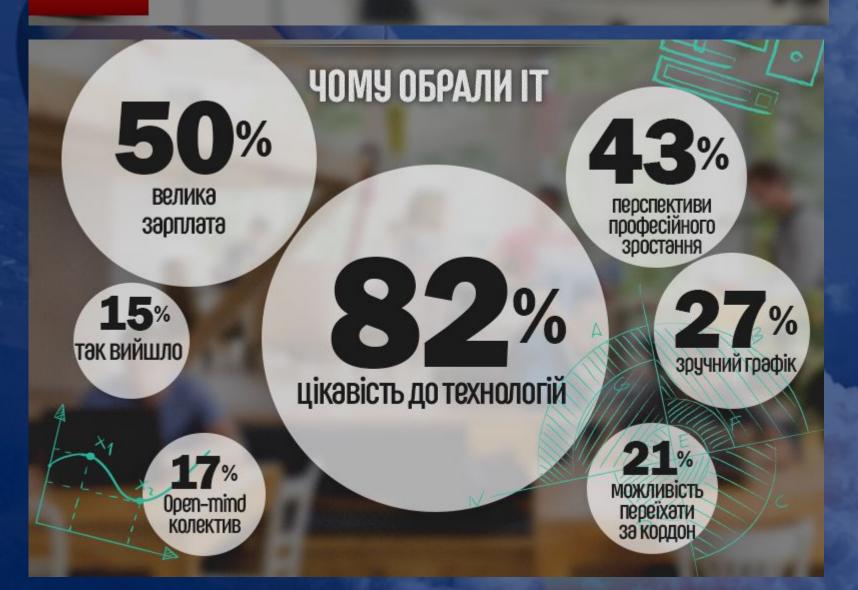


\$1736 is the median salary in Lviv IT market

Lviv IT: key facts



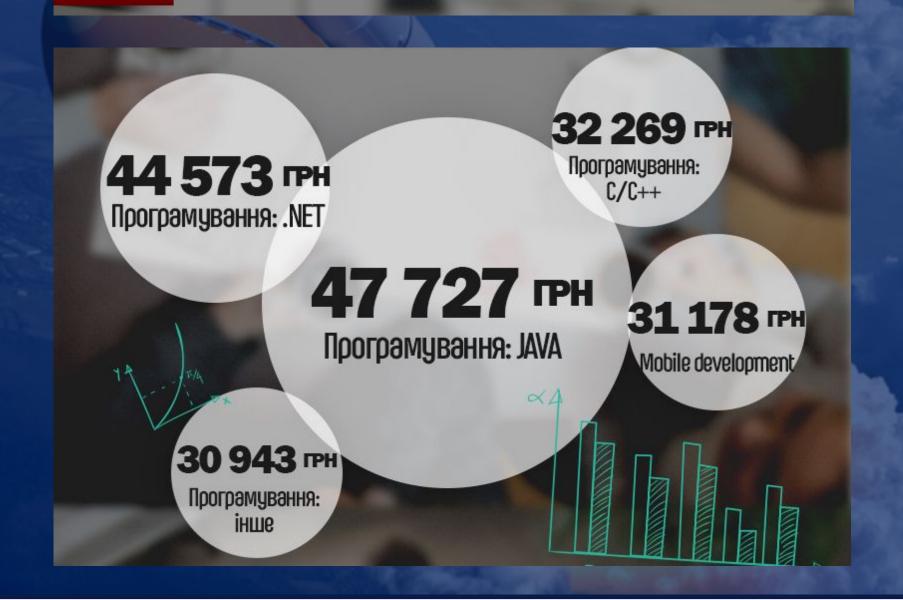
ТСН ПОРТРЕТ IT- ФАХІВЦЯ 2016



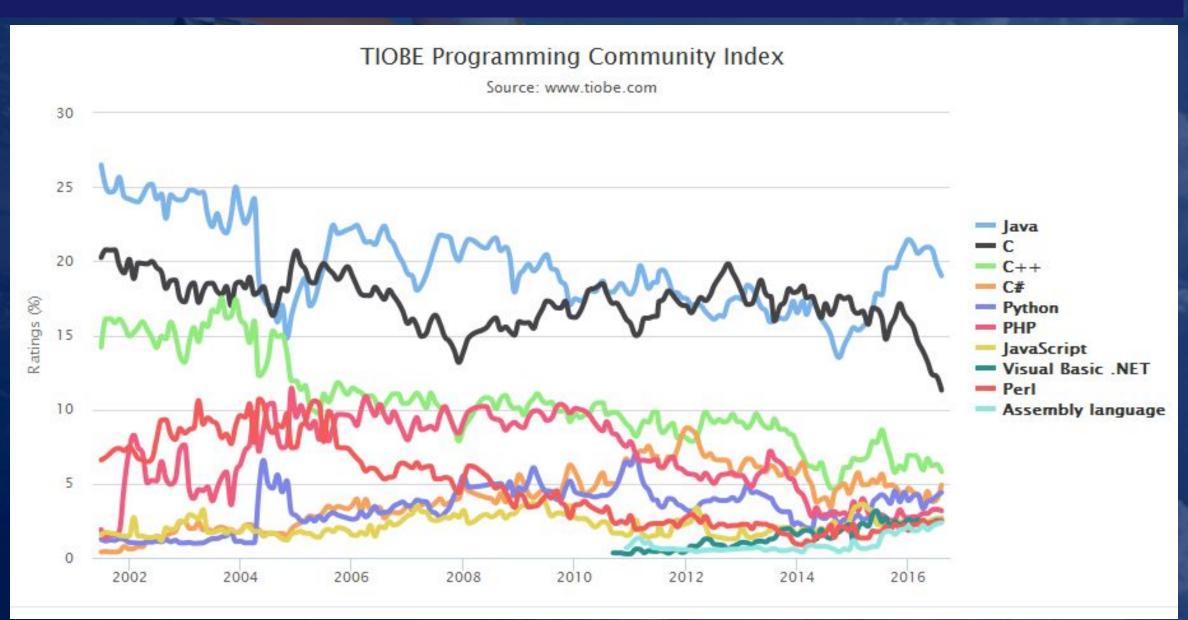
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Programming languages popularity



Internet of Things

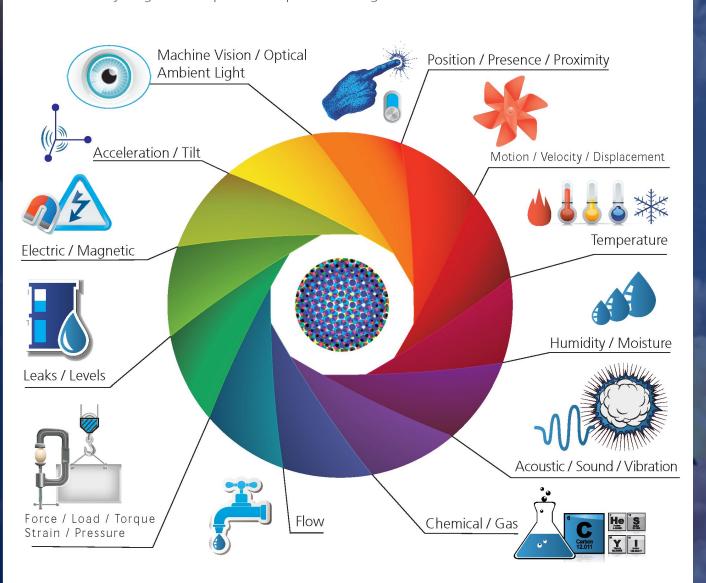
The **internet of things** (**IoT**) is the network of physical devices, vehicles, buildings and other items - <u>embedded</u> with <u>electronics</u>, <u>software</u>, <u>sensors</u>, actuators, and <u>network connectivity</u> that enable these objects to collect and exchange data

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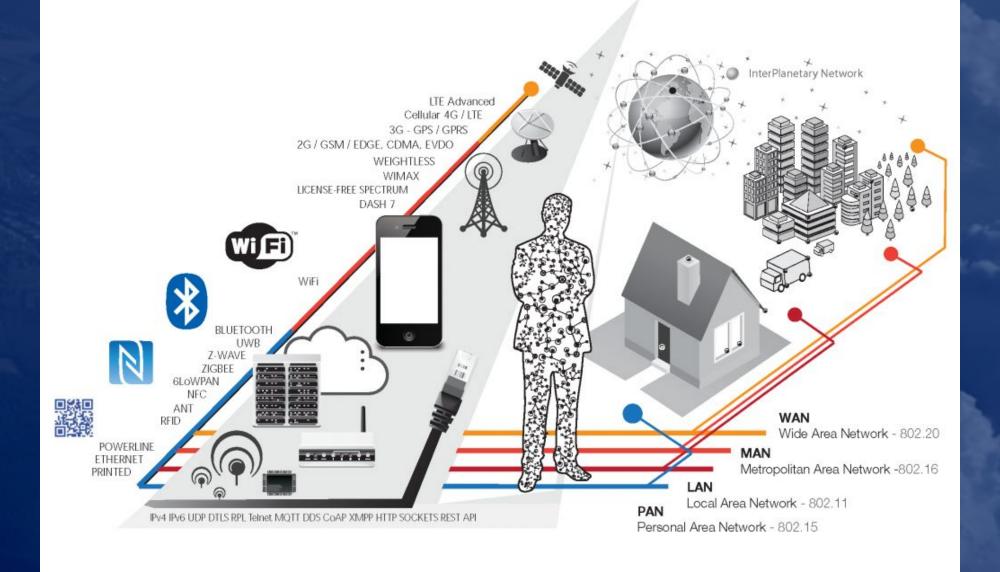


We are giving our world a digital nervous system. Location data using GPS sensors. Eyes and ears using cameras and microphones, along with sensory organs that can measure everything from temperature to pressure changes.



2 CONNECTIVITY

These inputs are digitized and placed onto networks.



Internet of Things applications



Internet of Things applications

www.youtube.com/watch?v=NjYTzvAVozo

Pooling

https://answergarden.ch/334723

Program goal

To train an engineer that is capable:

- Design a smart (IoT) device
- Not one, but set of devices
- Connect those devices into network
- Establish efficient information exchange between devices and cloud
- Organize device interaction with environment
- Select how to present efficiently information to the end user
- Develop the system with provide recommendation for user based on the existing IoT platforms

