



**Mikhail Pedus**  
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Address

Kaliningrad  
Russia

# Mikhail Pedus

## Deep Learning Software Engineer

### About Me

- 10 years of experience in IT industry, computer vision/neural networks algorithms development
- communication with international and global-distributed project team in English (intermediate) and Russian (native)
- ability to handle a variety of tasks and projects independently
- team-work skills

### Experience

#### Nov 2019 - present, *AI Framework Developer*, Intel

##### Contact info:

- Address: Russia, Nizhnii Novgorod, Turgeneva 30
- Phone/e-mail: +7 495 641 45 00 / bhr.russia@intel.com

##### Responsibilities:

- Development of the **VPUX plugin** for **OpenVino framework**:
  - Neural network compiler development (using LLVM/MLIR):
    - \* Adding new functionality (new layers/hardware features support)
    - \* pre-silicon validation of modern VPU's
  - VPU Runtime development:
    - \* Adding new kernels/layers support

##### Detailed achievements:

- Learned:
  - Vision Processing Unit performance
  - neural networks performance on deep level
  - neural networks compilers performance
  - VPU runtime
- Participated in the creation/development of the framework for pre-silicon validation
- Ensured all hardware features of VPU are tested on pre-silicon stage

#### Oct 2018 - Oct 2019, *Software developer*, Kalashnikov Concern

##### Contact info:

- Address: Russia, Krasnodar, Putevaya 11
- Phone/e-mail: +7 861 200 95 71 / v.a.feshin@kalashnikovconcern.ru

##### Responsibilities:

- Computer vision algorithms development

##### Detailed achievements:

- Developed a palms veins pattern matching algorithm for **biometrical scanner**

#### Nov 2017 - Oct 2018, *Software developer*, Videomatrix

##### Contact info:

- Address: Russia, Ekaterinburg, Gorkogo 63
- Phone/e-mail: +7 343 204 73 30 / vmx@videomatrix.ru

##### Responsibilities:

- Computer vision algorithms development

##### Detailed achievements:

- Developed an application/algorithms for **video analytics**. The system recognizes an objects in frame, monitors the appearance and behavior



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## Aug 2012 - Jul 2016, *Software developer*, MMC-Electronics

### Contact info:

- Address: Russia, Stavropol, Goleneva 21, office 161
- Phone/e-mail: +7 962 455 33 55 / mmce@mmce.ru

### Responsibilities:

- People counting algorithms development.

### Detailed achievements:

- Developed and provided support for an algorithm **bus passenger counting system**

## Education

### 2010 - 2016, NORTH-CAUCASUS FEDERAL UNIVERSITY

master of Computer Science

## Skills

### Communication

- English (intermediate)
- Russian (native)

### Soft

- good analytical/problem-solving skills
- fast to learn new skills/technologies
- committed
- self-initiative
- resourceful
- smart-worker

### Hard

- C++
- SQL
- DeepLearning
- OpenCV
- Linux
- CMake
- Compilers
- LLVM
- Git
- Python
- OpenVino

## Interests

### Professional

neural networks, computer vision, virtual/augmented reality, self-driving car

### Personal

Gym, cooking, playing the guitar, hiking