Timofey Uvarov
timo@fourierimagelab.com

1.2023 - Present: Founder. Fourier Image Lab, Campbell CA
- Customers: X-motors, ZipLine, Applied Intuition, Nuro.ai, Helm.ai
- Labs at customer sites
- Sensor driver for Orin
- ISP tuning, tooling and core verification
- Production control
- Automation and optical tools

5.2019 – 12.2022: Camera Lead. Pony.AI, Fremont CA
- Vendor relations
- Camera lab foundation and management
- Imaging pipeline optimization
- Component selection
- Camera for detection of traffic lights with flicker

2.2018 - 3.2019: ISP architect. Tesla, Palo Alto CA
- RAW pipeline for machine learning
- ISP tuning for ML and rear view cam
- Noise profiling
- Detection of faulty and covered cameras
- Bring up of the first silicone
- Camera lab development

10.2013 - 1.2018: Imaging Scientist. OmniVision, Singapore and Santa Clara,CA
- HDR solution for variable pixel exposure
- Ghost reduction for HDR
- Alignment for HDR
- De-hazing

7.2004 – 5.2013: Imaging Engineer. Samsung, South Korea
- ISP architecture (Exynos)
- Computational photography foundation
- ISP tuning
- Demosaicing, noise reduction,local contrast enhancement

9.1998 – 8.2003: Moscow State University
- MA, mathematician system programmer
- Image resampling in frequency domain

Top Achievements:
- Among 3 in maths nationwide with highest university entrance exam score
- 8th in city-level biathlon competition