



Alex Zhukov

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Profile

I am an engineer who knows how to translate between engineer-speak and business-speak, codes in any language fit for the job, builds server infrastructure, optimizes code in assembly, cuda or opengl.

I am an author of multiple patents in video field.

Object recognition and database population for video indexing

System and method of object recognition and database population for video indexing

Frequency domain interest point descriptor

Correlating sensor inputs with content stream intervals and selectively requesting and transmitting content streams

Logging events in media files

Logging events in media files including frame matching

My passions are cars, computer vision and skydiving.

Experience

CTO; VIDEOGORILLAS – 2009-PRESENT

Responsible for all aspects of development, product releases, and technical communications with customers; actively involved in products design.

- Built and led a team of 15 engineers.
- Designed and delivered in-browser video editing tools for Sony Pictures.
- Engineered on the fly video transcoding system and frame precise HTML5 video player for ABC and Walt Disney.
- Delivered best in class fully automatic frame matching technology for CBS.
- Architected, engineered and patented fully automatic movie restore technology used to restore a full feature movie for Netflix. <https://www.provideocoalition.com/videogorillas-bigfoot-super-resolution-converts-films-from-native-480p-to-4k/>
- Created LIVE4 GoPro - live streaming for GoPro product <https://live4.io/>
- Created ultra low latency live streaming platform for DJI drones, with custom live streaming media server
- Co-Author of <https://github.com/jcodec/jcodec> and <https://github.com/zhuker/lamejs>

LEAD ENGINEER; VIEWDLE – 2006-2010

Face recognition in video company. Acquired by Google.

Responsible for all aspects of development, product releases, and technical communications with customers; was actively involved in products design.

- Helped raise VC funding
- Built and led a team of 10 engineers .
- Designed and delivered fusion engine for enriching video indexing information with textual data obtained from custom speech-to-text engine.
- Delivered facial recognition service for indexing video files in the cloud for Reuters.
- Delivered best of the class facial recognition engine for video files.
- Ported the video recognition engine to ARM neon.
- Delivered experimental facial recognition engine using CUDA for NVIDIA's Tesla (joint project with NVIDIA).
- Collected requirements, led development and delivered VideoFriends application for Facebook.

Education

National University of Kyiv-Mohyla Academy – Computer Science BSc, 2004

Skills

Software design, Java, C, JavaScript

References

Stan Vitvitsky - hardware video codec engineer at Google

Arsen Kostenko - video engineer at Netflix

Andrew Rabinovich - Director, Deep Learning at MagicLeap

John Vickery - COO Zeroth industries