Alexander Roan

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Summary

Alexander Roan has a great skills over 15 years and high experiences on Computer Graphics, Vision and Artificial

Intelligent Professional.

My experiences and field is Computer Vision and Graphics related:

- Computer Graphics
- > High quality rendering quality
- > Realtime Ray Tracing
- Massive Rendering
- Z-Fighting : Depth Partition, Reverse Depth
- Accurate Rendering : Inverse Matrix Precalculation
- Transparency : Depth Peeling
- CAD
- > lightweight 2D/3D cad, BIM modeling architecture.
- Computer Vision
- > Face landmark detection and gaze estimation
- > Object detection in video
- Data Simulation and Visualization
- > Solar System
- > Euro Space Simulation Assistant
- Game Application
- Artificial Intelligent with Deep learning
- > Convolutional Neural Network and Deep Learning.
- > Prisma Styling of Image and Video using Deep Learning on mobile locally even.
- > detection of object using CNN on mobile.
- > Recognition People in a group using Deep learning

Object detection

Face recognition

- Text extraction from natural image
- Segmentation
- Pose estimation Net
- > Deep Fashion
- > RCNN(Region CNN)
- Virtual Reality
- Augmented Reality with SLAM
- Cuda/OpenCL/Mobile Parallel Computing.

Development Skills:

- C/C++/C#/Java/Objective-C/Swift/CMake
- Cross Platform development including mobile and embedded even.
- OpenGL/DirectX, OpenCV, dlib, Torch, TensorFlow, Unity, WebGL/Javascript
- Python, Scripts based installation

Robust and Stable System Design:

- UML/RAISE based Big Software System rigorous design and validation.
- Petri-Net based Parallel System design detecting deadlock and data corruption.

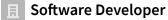
Experience

Intern

VisionLab GmbH & Co. KG Jul 2020 - Present (2 months +)

Software Engineer

Cesium Solutions Sep 2015 - 2019 (4 years 4 months)



Cosomedia GmbH & Co. KG Jun 2016 - Apr 2018 (1 year 11 months)



R&D in AR and Deep Learning Self-Employed

Jul 2008 - Feb 2012 (3 years 8 months)

Skills

Augmented Reality (AR) • C++ • Deep Learning • Object-Oriented Programming (OOP) • Software Development • Unified Modeling Language (UML) • Project Management • Leadership • Computer Vision • SLAM