Jeesun Kim

Graphics Engineer

Experienced in Computer Graphics and Vision, majoring in Computer Science and Engineering. Proficient in OpenGL, C/C++, CUDA, and FFMPEG. Experienced in implementing a Graphics Renderer from scratch. Interested in Graphics/Vision algorithms and Mathematics.

EXPERIENCE

Senior Graphics Engineer

Shakr Media

Seoul, South Korea 08-2019 - 02-2024

Seoul, South Korea

03-2016 - 03-2019

I am responsible for developing the OpenGL renderer from scratch communicating with *Adobe After Effects*. This project includes as follows:

- Linear and Bezier keyframing
- Video decoding and encoding acceleration with NVDEC/NVENC
- Audio processing such as stretching, panning, and volume control
- Common layer features including masks, layer parenting, track-matte, and motion blur
- Text leading, tracking, kerning, caps, and faux italic
- Text paths and animation
- Any shapes rendering including rectangles and ellipses with Bezier curves
- 3D camera viewing
- Lighting including ambient, point, spot, and parallel
- Running expressions written in Javascript with V8 engine
- Over 60 effects including corner-pin, fill, audio spectrum, wave warp, light sweep, etc.
- Layer styles; drop shadow, inner shadow, color overlay, and stroke

Associate Researcher

INTELLIVIX

I was responsible for developing and maintaining projects relating to Computer Graphics and Vision. Some projects to highlight are as follows:

- Estimating the frontal/lateral face images from lateral/frontal face images for face recognition
- Auto-calibration using objects being tracked
- Stabilization and turbulence removal in CCTV videos based on Qualcomm chip
- Fire, water-level, and weather detection
- Rendering virtual camera views without any graphics libraries
- People detection from an overhead-view single-depth camera

EDUCATION

2014 - 2016	Master's of Computer Graphics
2009 - 2014	Bachelor's of Computer Science and Engineering

Sogang University Sogang University

PUBLICATION

Paper (Master Thesis) - J.Kim. (2016). Creating Panoramic Videos from Unsynchronized Camera Arrays

Patent - I.Ihm and J.Kim, Method of Producing Panoramic Video Having Reduced Discontinuity for Images, Korea Patent #10-1741699, May 2017.

M: emoy.kim@gmail.com H: https://jeesunkim.com G: https://github.com/emoy-kim L: https://linkedin.com/in/emoy-kim