

Computer Vision Engineer ::: curriculum vitæ :::

Online version <a>Z



Career



Immersive video: immersive technologies (VR) in Kolor team

Non-linear optimization (CERES), Camera projection models, VR, rig calibration, 3D-reconstruction, SFM, GLSL.

2015

Aerial imagery: valorize aerial imagery for the customer needs



Technical project manager for fully automated detection of vegetation intruding power lines **!** using aerial imagery: Technical design, production and management of on-site and offshore teams (France, India, US).

2 years

5 years

3 years

Technical lead on embedded sensors : specifications, technology intelligence, sensor qualification for agriculture, energy and quarries applications.

Agile/SCRUM, projective geometry, non-linear optimization (scipy.optimize), C++, Qt, OpenCv, Magick, Python, numpy, git, linux/gnu.

2013

3D-stereoscopic Live shooting softwares: diagnose and fix 3D-stereoscopic for live shooting

Real-time correction software for 3D misalignment : design and fix computer vision algorithms.



Motion controlled 3D-rig equipped with variable length lenses: from mathematical design to implementation of motion control, including net protocol, and HTML5 remote control.

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HDR video: sensor qualification, toolkits for merging video streams into HDR video (cf. NEVEX ...).

Post-production correction software for 3D misalignment : design and implementation of the UI.

Projective geometry, lenses qualification, C++ (GNU/Visual), Linux, Embedded Linux, compilation (toolchain, makefile, autotools), MatLab, Python.

2008

RENAULT

PhD in Computer Vision : Obstacle detection using stereovision : automotive applications $\mbox{\colored}$

Industrial stereoscopic sensor calibration : life cycle study, Defect detection, Fallback mode 🔼 .

Detection and segmentation of potential obstacles

Tracking with Stereo-vision System for Low Speed Following Applications 🔼 .

C++ (Visual/GNU), MatLab, Python, algorithms delivery, internal+external communications, Experimental validations.

2004 IIRALab

RALab Research assistant : interact with virtual humans

C++ (visual), Facial expression detection, European project management.

6 months

2003

Side Projects

Trainee: 3D reconstruction using camera cluster

Unria 3D Reconstruction using colorimetry. 🔀

6 + 3 months Background/Silhouette learning for real-time 3D reconstruction

Color calibration, geometrical calibration, C++, video streaming, real-time

Graphic design: logos and materials for lebipbip.com . SpotAir ., mobibalises

Education In a few words 2008 Obstacle detection using stereovision: automotive PhD **Projective** OpenC Industry applications. 💆 , oral 🛂 geometry bundle sponsored* * CIFRE at I.N.P.G., I.N.R.I.A. and Renault **ImageMagick** 2003 non-linear Master Image, Vision and Robotic. at I.N.P.G. optimisation 2002 Maîtrise Computer science at I.M.A. Grenoble Python numpy scipy Ceres 2000 D.U.T. I.U.T of Computer science Grenoble Misc. **Hobbies** Paragliding: qualified for transport of passengers, Ski: instructor at university