Contact Information	dhernandez0@gmail.com Barcelona, Catalonia, Spain	https://www.danihernandez.eu Nationality: Spanish
Professional Experience	Senior Research Engineer Slamcore, Remote Computer Vision, Deep learning, Panoptic Segmentation, CUDA, TensorRT • Developed a fast panoptic segmentation model for Xavier NX achieving 30 fps. • Contributed to an ICRA paper on deep learning-based depth completion.	
	Research Engineer Huawei Noah's Ark lab, London, United Kingdom Computer Vision, Deep learning, Color Constancy (Auto W • Authored a CVPR paper on deep learning-based in	
	 PhD Internship Mercedes-Benz Group AG, Stuttgart, Germany Computer Vision, Stixel World, 3D representation of driving Developed a faster and more accurate version of the 	
EDUCATION	 PhD in Computer Vision Universitat Autònoma de Barcelona, Spain Thesis title: Embedded 3D Reconstruction for Autonomous Driving Adapt to GPU and parallelize (CUDA) computer vision algorithms. Computer Vision contributions: Developed a faster and more accurate version of the Stixel World. 	
	MSc in Computer Vision Universitat Autònoma de Barcelona, Spain	2015
	Bachelor of Computer Science Universitat Autònoma de Barcelona, Spain	2014
Publications	Journal Papers Self-Supervised Depth Completion for Active St In IEEE Robotics and Automation Letters (2022) (RA-	
	3D Perception with Slanted Stixels on GPU In IEEE Transactions on Parallel and Distributed Syste	2021 ms (2021) (TPDS)
	Slanted Stixels: A way to represent steep streets In International Journal of Computer Vision (2019) (Id	
	Conference Papers A Multi-Hypothesis Approach to Color Constan In Computer Vision and Pattern Recognition 2020 (CV	· ·
	Slanted Stixels: Representing San Francisco's Steepest Streets In British Machine Vision Conference 2017 (BMVC) Awarded as Best Industry Paper	
	GPU-accelerated real-time stixel computation In Winter Conference on Applications of Computer Vis	2017 ion 2017 (WACV)
	Embedded real-time stereo estimation via Semi- In International Conference on Computational Science	_
SKILLS	Python, C/C++, CUDA, Matlab, OpenCV, numpy, Py	Torch, Tensorflow
Awards	Extraordinary PhD Prize - Universitat Autònom Best Industrial Paper Award - BMVC	na de Barcelona 2023 2017