

CONTACT INFORMATION	dhernandez0@gmail.com Barcelona, Catalonia, Spain	<a href="https://www.danihernandez.eu">https://www.danihernandez.eu</a> Nationality: Spanish
PROFESSIONAL EXPERIENCE	<b>Senior Research Engineer</b> <b>Slamcore</b> , Remote <ul style="list-style-type: none"> <li>Computer Vision, Deep learning, Panoptic Segmentation, CUDA, TensorRT.</li> </ul> <b>Research Engineer</b> <b>Huawei Noah's Ark lab</b> , London, United Kingdom <ul style="list-style-type: none"> <li>Computer Vision, Deep learning, Color Constancy (Auto White Balance).</li> </ul> <b>PhD Internship</b> <b>Element AI (ServiceNow)</b> , Montreal, Canada <ul style="list-style-type: none"> <li>Computer Vision, Deep learning.</li> </ul> <b>PhD Internship</b> <b>Mercedes-Benz Group AG</b> , Stuttgart, Germany <ul style="list-style-type: none"> <li>Developed a faster and more accurate version of the Stixel World (Computer Vision).</li> </ul> <b>Assistant Professor</b> <b>Universitat Autònoma de Barcelona</b> , Spain	May 2020-Currently  March 2019-February 2020  June 2018-December 2018  January 2017-July 2017  2015-2018
EDUCATION	<b>PhD in Computer Vision</b> Universitat Autònoma de Barcelona, Spain <ul style="list-style-type: none"> <li>Thesis title: <b>Embedded 3D Reconstruction for Autonomous Driving</b></li> <li>Topic: Adapt to GPU and parallelize (CUDA) computer vision algorithms</li> </ul> <b>MSc in Computer Vision</b> Universitat Autònoma de Barcelona, Spain <b>Bachelor of Computer Science</b> Universitat Autònoma de Barcelona, Spain	2020   2015  2014
PUBLICATIONS	<b>Journal Papers</b> <b>Self-Supervised Depth Completion for Active Stereo</b> In <i>IEEE Robotics and Automation Letters</i> (2022) (RA-L and ICRA) <b>3D Perception with Slanted Stixels on GPU</b> In <i>IEEE Transactions on Parallel and Distributed Systems</i> (2021) (TPDS) <b>Slanted Stixels: A way to represent steep streets</b> In <i>International Journal of Computer Vision</i> (2019) (IJCV) <b>Conference Papers</b> <b>A Multi-Hypothesis Approach to Color Constancy</b> In <i>Computer Vision and Pattern Recognition 2020</i> (CVPR) <b>Slanted Stixels: Representing San Francisco's Steepest Streets</b> In <i>British Machine Vision Conference 2017</i> (BMVC) Awarded as <b>Best Industry Paper</b> <b>GPU-accelerated real-time stixel computation</b> In <i>Winter Conference on Applications of Computer Vision 2017</i> (WACV) <b>Embedded real-time stereo estimation via Semi-Global Matching</b> In <i>International Conference on Computational Science 2016</i> (ICCS)	2022  2021  2019  2020  2017  2017  2016
SKILLS	Python, C/C++, CUDA, Matlab, OpenCV, numpy, PyTorch, Tensorflow	
AWARDS	<b>Extraordinary PhD Prize - Universitat Autònoma de Barcelona</b> <b>Best Industrial Paper Award - BMVC</b>	2023 2017