

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