CURRICULUM VITAE

JOSÉ M. HORAS AZNAR

MSc Physics
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CORE COMPETENCIES

- Passionate about Artificial Intelligence and Neural Networks
- Excellent adaptability to new environments and diverse cultural settings
- Strong mathematical background and analytical thinker as Physics graduate
- Translating the physical reality into mathematical models as Modelling Engineer
- Working with production and different stakeholders as Equipment Engineer

EDUCATION

From 2019 **Student on AI and Neural Networks**

- Graduated to Udacity Nanodegree: Self-Driving Car Engineer (360 hrs.)
- Graduated to Udacity Nanodegree: Intro into Self-Driving Cars (160 hrs.)
- Audit Stanford's CS231n: CNNs for Visual Recognition (100 hrs.)
- Audit Stanford's CS224n: NLP with Deep Learning (100 hrs.)

2007 **MSc Physics** at the Ludwig-Maximilian University in Munich and University of Seville (ES)

PROFESSIONAL EXPERIENCE

2017 - 2018 **Sabbatical** **South East Asia**

- Gap year discovering different cultures, volunteering, and expanding personal limits and skills

2008 – 2016 **Senior Semiconductor Engineer** **Intel (Munich, DE)**

2013 - 2016 RF Modelling Engineer

- Designed and modelled semiconductor devices for new silicon technologies
- Substantially reduced development lead time through automation, using SKILL programming language and deploying scripts to the wider team

2011 - 2013 Lead Probing Engineer

- Owned test equipment roadmap, qualification projects, and vendor management
- Successfully introduced RF test technology, improving equipment performance at the production line in excess of 15%

2008 - 2011 Probing Engineer **Infineon (Munich, DE)**

- Qualified new test equipment and technology for the production line, maintained and improved engineering laboratory developing Labview scripts

2007 **Visiting scientist** **Ludwig Maximilians University (Munich, DE)**

- Research on quantum Hall systems

2006 **Research student**

- Characterize and process GaAs/AlGaAs semiconductor wafers

COMPUTER AND LANGUAGE SKILLS

- Deep Learning Frameworks: TensorFlow, Keras, PyTorch
- Programming Languages: Python, C++, SKILL, Labview
- Development Libraries: ROS, OpenCV, numpy, matlibplot, pandas
- Development Tools: Jupyter Notebooks, Docker, Git, GitHub
- Languages: Spanish (Native), English (Excellent), German (Excellent)

SCIENTIFIC PUBLICATIONS

- "Asymmetric nonlinear response of the quantized Hall effect" - New Journal of Physics 12, 113011 (2010)
- "Interaction mediated asymmetries of the quantized Hall effect" - Eur. Phys. Lett. 88, 17007 (2009)
- "Investigations on unconventional aspects in the quantum Hall regime of narrow gate defined channels" - Physica E 40, 1130-1132 (2008)