

CURRICULUM VITAE

JOSÉ M. HORAS AZNAR

MSc Physics

Spanish National and Munich resident

jose.horas@gmail.com

<https://github.com/josehoras>

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, matplotlib, 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)