CURRICULUM VITAE
JOSÉ M. HORAS AZNAR
MSc Physics

Spanish National and Munich resident
jose.horas@gmail.com
https://github.com/josehoras
https://josehoras.github.io/

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: Programming for Data Science with R (120 hrs.)
- 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 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%
- Presented at multiple Industry events with attendance ranging from 10s to 100s

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, SQL, R
- 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
- "Investigations on unconventional aspects in the quantum Hall regime of narrow gate defined channels" - Physica E 40, 1130-1132 (2008)