DANIEL FLORES ARAIZA

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WORK EXPERIENCE

Higher-education Teaching Assistant at **Tecnológico de Monterrey**   February 2024 – **Current**
- Grading tasks and class activities for "Implementation of wide area networks and distributed services."

Online Instructor at **Jalisco Open Platform for Innovation and Development (PLAID)**   April 2024 – **Current**
- Generation of content and delivery of the intermediate-level course "Deep Learning." Students self-reported high satisfaction with the topics, the depth, and width of the course.

Control Center IT Specialist at **T-Systems México**   April 2016 – August 2020
- Monitoring, follow-up, and reporting of high-priority incidents in Audi Mx's IT infrastructure to T-systems and Audi Mx management.

Automation Systems Specialist at **Leanmatics**   November 2014 – January 2015
- Repair and renovation of a 40-ton pressure Raskin CNC punching machine. The electronics and control system necessary for adequately handling the machine were developed and implemented.

Measurement Systems Integrator at **MESS** (Bachelor Internship)   August – December 2012
- Design, integrate, and adjust a portable Coordinate Measuring Machine (CMM) with a measurement precision of 5um, achieving a lower cost of production and scaling down to provide portability.

EDUCATION

Ph.D. in Computer Science at **Tecnológico de Monterrey, Guadalajara Campus**   August 2020 – **Current**
Master in Science with a specialty in Intelligent Systems at **Tecnológico de Monterrey**   *2014 – 2019*
Bachelor in Mechatronics Engineering focused on Applied Robotics at **Tecnológico de Monterrey**   *2008 – 2013*

SKILLS

Programming Languages: Python 5+ years, R, C, C++
Databases: MySQL, Postgres
Tools and IDE: Git, Vim, Docker, Sklearn, Pandas, Pytorch, Matplotlib, Plotly, Visual Studio Code
Other Software: NetLogo, MATLAB, Solid Edge, MPLAB, EAGLE
Personal Skills: Critical-thinking, Collaborative, Problem-solving, Proactive, Oral and written communication.

LANGUAGES

English: Advanced, **Spanish**: Native.

RESEARCH PUBLICATIONS

- Deep prototypical-parts ease morphological kidney stone identification and are competitively robust to photometric perturbations. D Flores-Araiza, F Lopez-Tiro, J El-Beze, J Hubert… - Proceedings of the IEEE/CVF CVPR LXAI Workshop, 2023.
- Causal Scoring Medical Image Explanations: A Case Study On Ex-vivo Kidney Stone Images. A Villegas-Jimenez, D Flores-Araiza, F Lopez-Tiro - arXiv preprint arXiv:2309.01921, 2023.
- Full list of publications at: https://scholar.google.com/citations?user=p9c3YKsAAAAJ

CERTIFICATES

Specialization: Generative Adversarial Networks (GANs), by DeepLearning.AI   Apr.–2023
Best Full paper award at the LatinX in CV research workshop at CVPR   Jun. –2022
Specialization: AI for Medicine, by DeepLearning.AI   Oct.–2021
Specialization: Neural Networks and Deep Learning, by DeepLearning.AI   Apr.–2021
Full list of specialization certificates at: https://www.linkedin.com/in/daniel-flores-araiza/details/certifications/

EXTRACURRICULAR ACTIVITIES

Continuous education in Programming, Data Analysis, Data Visualization, Deep Learning, and AI.
As the presentation chair for the LatinX in AI workshops for CVPR and ICCV 2022 and 2023, I helped organize the event, which increased participation by 50%.