

# Jorge Alberto Prado Herrada

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## WORK EXPERIENCE

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### VOLKSWAGEN FINANCIAL SERVICES

August 2023 – Currently

*QA Tester*

*Puebla, Puebla*

- Collaborated with a cross-functional team to perform functional end-to-end testing, user acceptance testing, regression testing, as well as stress testing on high impact financial systems.
- Proposed and implemented QA Automation for end-to-end tests using a variety of technologies that better suited the project.
- Managed, directed, and actively participated in the continuous improvement of the area's KPIs and dashboards presented to upper management, as well as integrating them to cloud-based platforms.
- Developed several proof-of-concept solutions using A.I. for improving process efficiency and response times.

### National Institute for Astrophysics, Optics and Electronics

August 2022 – August 2023

*Artificial Intelligence Research Assistant*

*Santa María Tonantzintla, Puebla*

- As an A.I. Research Assistant, I collaborated with a cross-functional team to develop and maintain state-of-the-art end-to-end A.I. based applications using mainly Computer Vision with Machine Learning and Deep Learning for anomaly detection, object detection and classification, tracking and segmentation.
- Database creation and augmentation with both traditional and GAN-based methods.
- Conducted research on state-of-the-art Vision Transformers algorithms for scientific and technological innovation.

### STARMIX INDUSTRIES/METLAG

January 2021 – August 2021

*Mechatronics Engineer*

*Gómez Palacio, Durango*

- As a Mechatronics Engineer my core responsibility was to develop innovative products, from the early stages of the project such as quoting, electronic and mechanical design, CAD, as well as supervising the additive manufacturing process for the products.
- I also had to attend weekly meetings with the clients to give an update on every project that we were working on and discuss any additional requirements for any of the projects.

### MALLABESA

August 2020 – December 2020

*Mechatronics Engineer Internship*

*Gómez Palacio, Durango*

- Successfully programmed and maintained pick & place robots, ensuring optimal performance and efficiency for electronics manufacturing
- Collaborated with cross-functional teams to design and implement electronic systems for instrumentation.

## EDUCATION

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### National Institute for Astrophysics, Optics, and Electronics

August 2021 – August 2023

MSc. In Science and Technology of Space, specialization in Earth Observation

*Santa María Tonantzintla, Puebla*

### La Salle Laguna University

August 2016 – January 2021

Bachelors in Mechatronics Engineering

*Gómez Palacio, Durango*

## SKILLS & LANGUAGES

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- **Skills:** Python, C++, SQL, ML framework (PyTorch, TensorFlow, Pandas, Sci-kit, Keras), OOP, Software Design Patterns, TypeScript, QA Automation frameworks (TestCafe, Cypress, Selenium), AWS QuickSight & Bedrock, JMeter
- **Languages:** Spanish: Native; English: C1; French: B1; German: A1