

Nicolás Gieseemann

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EDUCATION

Purdue University, Energy and Transport Sciences Lab
Ph.D. in Mechanical Engineering

West Lafayette, IN
August 2026 - Present

Purdue University
B.S. in Mechanical Engineering, GPA 3.87/4.00

West Lafayette, IN
August 2021 – May 2025

- *Passed FE Examination, Tau Beta Pi, Pi Tau Sigma*

PROFESSIONAL EXPERIENCE

Compañía Agrícola Industrial Santa Ana (Ingenio Santa Ana)
Data Analyst

Escuintla, Guatemala
September 2025 – June 2026

- Created 5 dashboards in Power BI and Qlik Sense visualizing agricultural and financial KPIs, enabling agricultural, financial, and industrial teams to make faster data-driven decisions.
- Built a Python reporting pipeline incorporating pandas and ML models (XGBoost, LightGBM) to automate cane-delivery classification and forecasting, replacing manual tracking.
- Optimized SQL queries and pipelines (Oracle/PostgreSQL) for agricultural and financial data orchestrating with Apache Airflow.

Purdue University
Undergraduate Teaching Assistant

West Lafayette, IN
August 2024-December 2024

- Communicated with teaching assistants during weekly teaching-team meetings to provide updates on grading progress and student performance for 120 student section.
- Demonstrated strong responsibility and time management by handling deliverables and consistently meeting strict deadlines

Maha Fluid Power Research Center
Undergraduate Research Fellow

Lafayette, IN
May 2024 – July 2024

- Designed hydraulic control system for testing bench to enable testing of novel hydraulic systems.
- Collected benchmark data from a 5-ton mini-excavator actuator test and processed it in MATLAB for user visualization
- Obtained sensitivity testing data for 5+ parameters to tune an excavator model in Siemens Amesim

IMMI (Center for Advanced Product Evaluation)
Test Engineering Intern

Westfield, IN
May 2023 – July 2023

- Designed and manufactured a cost-effective foam calibrator for FMVSS 213 testing with repurposed and previously unused spare parts
- Collaborated with test technicians in setting up and running tests in Servo-Sled and Linear Impactor testing stations
- Analyzed deficiencies and evaluated alternate uses for drop-tower testing center

SKILLS & INTERESTS

- **Technical:** Microsoft Office, Tableau, Power BI, Qlik Sense, NI LabView, Simulink, Amesim, AWS Lambda
- **Coding:** Python, SQL, MATLAB, C,
- **CAD:** Siemens NX, Autodesk Inventor, Fusion 360, SolidWorks
- **Languages:** Fluent English and Spanish, Intermediate German
- **Certifications:** IBM Data Analyst Professional Certificate (Coursera)
- **Interests:** Football, Soccer, Gaming
- **Guatemalan and German Citizenship**