

Heriberto Frías

Summary

TBPE-Registered ME and EE with an 11-year manufacturing and a 13-yr teaching experience striving to develop students' skills and proficiency in the STEM areas to their full potential.

Experience

2004-present Alief ISD Houston, TX
Teacher, Science, Bilingual

- Taught Physics, Chemistry, Engineering, 3D Modeling, Electronics and Robotics in grades 9-12.
- Successfully coached Science and Engineering Club students participating on the SeaPerch National Challenge, an underwater ROV competition, yearly since 2014.
- Taught Bilingual elementary students, maintaining recognized-level scores on State Assessments at low-income, high-minority Title I campuses in grades 3rd-6th.
- Coached a group of students competing at the C-STEM Robotics Challenge as part of Alief's team in the elementary category. Alief obtained a 2nd place prize out of 14 teams on our second year participating.
- Coached science teachers to improve instruction via hands-on science, constructivism, and the 5-E lesson model. As a science coach, helped increase science scores by 7%, through Professional Learning Community (PLC) collaboration, and promoting science literacy among stakeholders by organizing annual science nights focused on the curriculum objectives.

2003-2004 Ikon Office Solutions Guadalajara, Méx
Plant Manager

- Planned and executed production schedules based on sales projections and inventory, working closely with sales and distribution. Managed parts and product inventories using an MRP/ERP, TQM and a Kanban (JIT) system. Implemented two new model assembly processes, as well as process control within an ISO-9000 quality system. Negotiated with union a performance-based compensation package to drive cost efficiency.

2001-2003 UNICO Community College Guadalajara, Méx
Adjunct Professor

- Taught Junior College level courses, such as Linear Algebra, Electrical Circuits, Computer Science, and Electrical Installations.
- Secured grant funding from the International Consortium for Education and Economic Development (ICEED) to collaborate with Douglas College in Coquitlam, BC, Canada to develop a joint Computer Science program that would facilitate student exchange between both colleges.
- Presented the results of the collaboration with Douglas College at the ICEED Conference in Albuquerque, NM.

1997-2001 Ikon Office Solutions Tijuana, Méx
Senior Process Engineer

- Designed and implemented processes and MRP/ERP system for a start-up plant. Sourced equipment and tools, and trained the first personnel group for the original process. Developed a total of 8 new model projects. Brought new model implementation time down from 8 to 4 months, including a 3-mo. period administrating all production resources and supply chain. Applied the Six Sigma model to quality assurance. Collaborated in achieving and maintaining ISO9001-2000, UL, NOM and applicable HSE
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agencies certifications, driving annual improvements of over 50% in key quality measures, including internal defects, customer ratings, and HSE audits. Improved equipment down time by about 30 minutes or 16%, while reducing plant maintenance expenses. Implemented cost reduction projects for \$1.2 million. Projects included new processes, efficient use of materials and energy, supply chain management and productivity increases through tooling design, line re-balancing and training.

1992-1997

Eastman Kodak

Tijuana, Méx

Product Engineer

- Utilized strong root-cause analysis and electrical troubleshooting skills to repair and identify the origin of quality defects in product or parts for the company's Copier Products Division. Analyzed defects and modified processes to achieve continuous improvement goals within the ISO-9000 QS and a Six-Sigma initiative.

Education & Certifications

2002-2020

Texas Board of Professional Engineers

Austin, TX

EIT No. 46596

1999-2001

Instituto Tecnológico de Tijuana

Tijuana, Méx

MS, Industrial Administration

1987-1992

Universidad Autónoma de Guadalajara

Guadalajara, Méx

BS, Mechanical and Electrical Engineering