

Cynthia Griselle De la Cruz Márquez

A responsible teacher who likes to work in a team environment, capable of working in different modalities and assuming a leadership role proactively, fostering respect, tolerance, and empathy among peers and students. keeping up to date with emerging technologies.

EDUCATION

PHD in Engineering Sciences (Currently studying at seventh semester)

Instituto Tecnológico de Estudios Superiores de Monterrey

Master's Degree in Industrial Engineering (2016-2018)

Universidad Autónoma de Ciudad Juárez – México

Bachelor's Degree in Industrial engineering (2010-2015)

Instituto Tecnológico de Ciudad Juárez -México

PUBLICATIONS

De-la-Cruz-Márquez, C. G., Cárdenas-Barrón, L. E., & Mandal, B. (2021). An inventory model for growing items with imperfect quality when the demand is price sensitive under carbon emissions and shortages. *Mathematical Problems in Engineering*, 2021.

De-la-Cruz-Márquez, C. G., Cárdenas-Barrón, L. E., Mandal, B., Smith, N. R., Bourguet-Díaz, R. E., Loera-Hernández, I. D. J., Céspedes-Mota, A., & Treviño-Garza, G. (2022). An Inventory Model in a Three-Echelon Supply Chain for Growing Items with Imperfect Quality, Mortality, and Shortages under Carbon Emissions When the Demand Is Price Sensitive. *Mathematics*, 10(24), 4684.

Ramos, F. L., Batres, R., De-la-Cruz-Márquez, C. G., & Anzures, M. L. (2023). Optimization models for nopal crop planning with land usage expansion and government subsidy. *Socio-Economic Planning Sciences*, 89, 101693.

PROFESIONAL EXPERIENCE

CURRENTLY TEACHING THE “ENSURING OPERATIONAL EXCELLENCE” BLOCK, THE SUBJECT OF “ECONOMIC EVALUATION OF PROJECTS”, AND IN TEC WEEK “PREPARE FOR THE RACE OF YOUR LIFE” | ITESM |

PROFESSOR AND COORDINATOR IN THE “DESIGN AND ANALYSIS OF EXPERIMENTS IN ENGINEERING INNOVATION” BLOCK | ITESM | SEPTEMBER 2022 – DECEMBER 2022

Performed activities:

SOFTWARE

- Weibull++ / ALTA
- Minitab
- ProModel
- Wolfram Mathematica
- Matlab
- Lingo

LANGUAGES

Spanish: Native
English: Full professional proficiency

- Developing support material for the class.
- Giving feedback to students
- Preparing the evaluation plan and sending grades

RESEARCH SCHOLAR IN SCHOOL OF MECHANICAL, INDUSTRIAL AND MANUFACTURING ENGINEERING AT OREGON STATE UNIVERSITY | OSU | AUGUST 2022 – OCTOBER 2022

Performed activities:

- Development of the third article “not yet published”
- Participation as a hearing student in the course “Information Systems Engineering” taught by Dr. David Porter

VALIDATION AND WARRANTY ENGINEER INTERNSHIP | STONERIDGE | OCTOBER 2017– DECEMBER 2019

Performed activities:

- Coordination of validation projects (Scheduling, Purchasing, Reports)
- Life Tests (Temperature, Vibration, Free Fall, Humidity, ESD)
- Warranties administration and analysis (Claims, Disposition, 8Ds, Reports)
- Development of a reliability plan for the client
- Demonstration of reliability required by the customer
- Reduction in project launch time

Improvement Projects:

- Development of reliability validation plan for transmission module in high temperature test and temperature cycle.

PRODUCT ENGINEER INTERNSHIP | CONTINENTAL | OCTOBER 2015 – DECEMBER 2016

Performed activities:

- Customer’s complaints (Analysis, 8Ds, Customer Portal, PPMs)
- Testing Coordinator
- Recovery area supervisor
- Inventory control

Improvement Projects:

- **PPMs Reduction:** Production line units analysis project. PPMs related to customer complaints were reduced.

REFERENCES

Dr. Leopoldo Eduardo Cárdenas Barrón

| ITESM | Prof. of Industrial and Systems Engineering
 Phone: 811 208 94 77
 E-mail: lecarden@tec.mx

Dr. David Porter

| OSU | Prof. of Industrial and Manufacturing Engineering and Associate School Head for Graduate Programs
 Phone: 1 541 737 2446
 E-mail: David.porter@oregonstate.edu