

Valentina Nino  
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## **OBJECTIVE**

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As a motivated, oriented problem-solver, and enthusiastic person that loves to learn about different topics I am seeking a faculty position. I am eager to come back to the classroom to teach, interact, and transfer industrial engineering knowledge in areas such as operation management, management and organization, supply chain analytics, managing quality and productivity, management research experience, operation research, process simulation, and economic analysis.

## **PROFILE**

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Industrial engineer with over four years of experience in different industries including healthcare facilities, exploration and production oil industry, steel industry, maintenance, education, and consulting companies. Over eleven years of experience in education, achieving outstanding growth as a professor in project development and design of new teaching and learning spaces.

## **EDUCATION**

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- Ph. D Candidate (ABD). Industrial and Management Engineering. Montana State University, Bozeman, MT. Expected graduation May 2021
- M.S. Industrial and Management Engineering. Montana State University, Bozeman, MT. 2017
- M.Sc. Industrial Engineering. University of Tachira, San Cristobal, Venezuela. 2009
- B.S. Industrial Engineering. Honors: Cum-Laude. University of Tachira, San Cristobal, Venezuela. 2001

## **TEACHING EXPERIENCE**

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**Instructor** (January 2020 – Present) **Montana State University**. Montana, USA.

- Course taught: EGEN 325: Engineering Economic Analysis

**Graduate Research Assistant** (August 2015 – Present) **Montana State University**. Montana, USA.

- **Fully funded Ph. D. research position**
- **Research Assistant. M&IE Department**-- Dr. David Claudio
  - Conduct research, perform experiments, collect and analyze data, with an emphasis on human factors, health care delivery, multi-attribute decision making, process optimization, and usability engineering areas
  - Propose new research problems
  - Attend conferences, and disseminate scholarly work

**Graduate Teaching Assistant** (August – December 2015) **Montana State University**. Montana, USA.

- Mech Eng/ Mech Engr Tech Capstone I CL (EMEC/ETME 489)
- Mech Eng/ Mech Engr Tech Design Capstone II CL (EMEC/ETME 499)
  - Conduct help sessions
  - Advise and tutored students on coursework
  - Grade papers, exams, reports, and homework assignments.

**Associate Professor** (July 2003 – January 2015) **University of Tachira**. Tachira, Venezuela.

Courses taught:

- 0000301T – Algebra
- 0135701T – Operation Research I
- 0135802T – Operation Research II
- 0134805T / 0134909T – Engineering Economic Analysis

Other responsibilities:

- Chief of Quantitative Techniques Teaching group
- Founder and chief of Manufacturing and Service Processes Simulation Laboratory
- Member of Quality and Productivity Research Program

## INDUSTRY EXPERIENCE

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**Process Improvement Analyst** (January 2016 – Present) **Bozeman Health. Graduate Research Assistant.** Montana State University. Bozeman, USA.

- Develop the methodology for collecting, extracting, processing, conducting data research and analysis to support operations and management decisions, and facilitate solutions to organization problems
- Responds to a variety of requests for process improvements in different departments and areas within the organization
- Define, gather and validate pertinent information to determine appropriate mathematical models and conduct statistical tests and predictive analysis

**Maintenance Assistant** (October 2015 – January 2019) **Family and Graduate Housing.** Montana, USA.

- Under the general direction of the Maintenance Supervisor, oversee all maintenance activities
- Plan, schedule, and execute all routine maintenance activities ensuring consistency of procedures and best practices
- Oversee and mentoring maintenance employees under my direction (on average 15 employees)
- Assets units before and after tenants move

**Process Analyst** (July 2002 – July 2003) **PDVSA/ Oil & Gas Company.** Barinas, Venezuela.

PDVSA is the largest petroleum and gas corporation in Venezuela

- Assist with OHSAS 18001 (equivalent to OSHA) process safety management (PSM), EPA risk management plan (RMP), Safety and Environmental Management Systems (SEMS) and process hazard analysis (PHA) programs
- Conduct ergonomic evaluations, worksite inspections, and field inspections/visits
- Develop programs to meet OSHA PSM standards, update all safety and health programs and plans
- Conduct periodic occupational safety and health inspections/visits to workplace facilities

**Quality Assurance Manager** (November 2001 – July 2002) **Gurimetal.** Tachira, Venezuela

Gurimetal is a company leader in the production of springs and wire products in Venezuela.

- Execute all activities required for product release following quality and regulatory standards procedures
- Draw, review, and approve documents such as new procedures, protocols, reports, material specifications, procedures, work instructions, forms, among others that support the quality system
- Provide technical assistance to existing and potential customers to set new lines of products or improve existing ones. Provide technical assistance in general production problems

**Plant Engineer Professional Internship** (January – July 2001) Cold-Hot Rolling Mills Plant. **Siderurgica del Orinoco.** Bolivar, Venezuela.

SIDOR is the largest Venezuelan steel corporation with a production capacity of 4.6 million tons.

- Improve throughput across the production line, identify bottleneck and constraints
- Implement equipment maintenance practices and preventive maintenance programs
- Develop and maintain product quality and testing procedures
- Instruct employees in proper work practices, procedures, and workforce safety

**Project Management Assistant Intern** (March – December 2000) **Co-Op AGANUALA.** Apure, Venezuela.

- Co-leader in the project “*Cooperation Network for dairy products production El Nula*”
- Search, evaluate, and decide the machinery to be installed in the manufacturing plant
- Conduct a plant layout design study and lead the implementation of the plant layout design
- Oversight of field project and management of subcontractors
- Create, review, and approve the procedures to follow in the manufacturing plant

## SELECTED GRANTS

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- BDHS Inpatient/outpatient and Facility Services, from Bozeman Deaconess Health Services (BOZDEA)
- Manufacturing and Service Processes Simulation Laboratory from National Science, Technology, and Innovation Fund of Venezuela (FONACIT)
- Cooperation Network for dairy products production El Nula, from National Science, Technology, and Innovation Fund of Venezuela (FONACIT)
- Systems to the development of the municipalities of Tachira State, from Government of Tachira
- Strategic development of SMEs of Tachira State, from the CONINPYME Program.

## FELLOWSHIPS, HONORS, AND AWARDS

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- Benjamin Ph. D. Fellowship (2015) College of Engineering, Montana State University
- Recipient of the 2008 Research Award First place in humanistic, scientific, and technological research at University of Tachira, Venezuela (2008)
- Meritorious Research award at University of Tachira, Venezuela (2007)
- Cum Laude (November 2001)
- Outstanding Industrial Engineering Senior Award, University of Tachira, Venezuela (2001)
- Outstanding Industrial Engineering Junior Award, University of Tachira, Venezuela (2000)

## SELECTED PEER-REVIEWED JOURNAL, CONFERENCE, AND POSTER PUBLICATIONS

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- **Nino, V.,** Claudio, D. (Under review) Physical and Mental Workload Interactions in a Sterile Processing Department. *International Journal of Industrial Ergonomics.*
- Harris, S., **Nino, L.,** Claudio, D. (Under review) A statistical comparison between different multicriteria scaling and weighting combinations. *International Journal of Industrial and Systems Engineering.*
- **Nino, V.,** Marchak, F., Claudio, D. (2019) Association between Perceived Workload and Adverse Body Postures. *HFES 2019 International Symposium of Human Factors and Ergonomics in Health Care*
- **Nino, L.,** Harris, S. P., Claudio, D. (2016) A simulation of variability-oriented sequencing rules on block surgical scheduling. *2016 Winter Simulation Conference (WSC). IEEE*
- **Niño, L.,** Madriz, D., Márquez, M. and Castillo, M. (2006) Generation of Alternatives of Development of the Potential Sectors for the Cordoba Municipality, through the Approach of the Logical Framework. Case: Vega Grande Village. *Revista FACES, 17(1), 43-59.*
- Márquez, M. and **Niño, L.** (2008) Proposal for Improvement the Quality of Teaching in the Subject Engineering of the Production I. *Revista Científica UNET, 20(1), 41-50*
- Márquez, M., **Niño, L.,** Madriz, D. and Castillo, M. (2006) Diagnostic of the Small and Medium Manufacturing Enterprises of the Tachira State under the Norm COVENIN 1980-89. *Revista Científica UNET, 18(1), 55-64.*
- Madriz, D., Castillo, E., Márquez, M., **Niño, L.,** Molina, J., Moreno, M. and Quiroz, Y. (2006) Management Diagnostic of Tachira SME: Puente Real – La Ermita and Santa Ana – Rubio – Capacho Zones. *Revista Científica UNET, 18 (1), 41-54.*
- Madriz, D., Castillo, E., Márquez, M., **Niño, V.,** & Parra, M. (2006). Potential Development Axis in the Municipalities of Rafael Urdaneta and Junin, State of Tachira, Venezuela. *Cayapa. Revista Venezolana de Economía Social, 6(11).*
- Madriz, D., Ruíz, B., Castillo, E., **Niño, L.,** Márquez, M. and Parra, M. (2005) Potential Sectors of Production of the Tachira State, Venezuela. *Revista Científica UNET, 17(1), 11-32.*
- **Guest Lecture** (2004). Topic: New production and management operation approaches towards the achievement of business competitiveness. *Corporacion Universidad Libre. Cucuta, Colombia*

## SELECTED ENGAGEMENT, OUTREACH, AND SERVICE

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- Second Vice-president and founder member of the Society of Hispanic Professional Engineers (SHPE) MSU Chapter

- College of Engineering Graduate ambassador. Industrial Engineering Department representative MSU (August 2018 – Present)
- Volunteer of Hour of Enrichment (HOE) program at Irving Elementary School, Bozeman. (2018 – 2019)
- Member of the “Fuerza Latinx” Student Organization. MSU (Since 2019)
- Reviewer/Referee of Healthcare Systems Process Improvement Conference (2020). Institute of Industrial & Systems Engineers (IISE)
- Reviewer/Referee of University of Tachira Scientific Journal (2009 – 2015)
- Industrial Engineering Department Evaluation Undergraduate Thesis, Capstone, and Internship Committee (February 2011 – January 2015)

### **PROFESSIONAL MEMBERSHIP**

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- Institute of Industrial and Systems Engineers (IISE)
- The Honor Society of Phi Kappa Phi
- Alpha Pi Mu Industrial Engineering honor society MSU Chapter
- Society of Hispanic Professional Engineers (SHPE) MSU Chapter
- American Society for Engineering Management MSU Chapter

### **SKILLS AND QUALIFICATIONS**

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- Logistic Regression, Classification and Regression Trees, Non-linear Regression
- Lean Manufacturing and Six Sigma training and experience
- Proficient in the following computer software: Arena, FlexSim, Minitab, R Studio, Microsoft Office, Visio.
- Statistics, modeling, and simulation
- Data collection and analysis
- Maintenance engineering, management, and project planning training and experience
- Training in the evaluation of dangerous atmospheres
- Training in work permits in the oil industry
- Project management and leadership training
- Research and teaching training
- Technical writing and presentation
- Bilingual (English and Spanish)

## References for Valentina Nino

**Dr. David Claudio, Ph.D., PE, CPIM**

Associate Professor  
Mechanical & Industrial Engineering  
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**Dr. Maria Velazquez, Ph.D., PE.**

Faculty in Residence - Empower  
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Montana State University  
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**Dr. Sean Harris, Ph.D.**

Instructor (Tenure Track Position)  
Jake Jobs College of Business & Entrepreneurship  
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