PERSONAL INFORMATION   Arturo Estrada Rodríguez

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Sex Male | Date of birth 28/09/1991 | Nationality Mexican, Portuguese

EDUCATION AND TRAINING

Sept2019 - Present

PhD Management
University College London (UK)

Sept2018 - August2019

MRes Management
Distinction

University College London (UK)

- Dissertation: Customer Classification in Priority Service Systems
- Courses: Statistical Modelling and Data Analysis, Fundamentals in Operations Research, Microeconomics, Probability, Social Network Analysis, Critical Writing and Presentation Skills.

Aug2015 – May2017

Master of Science in Manufacturing Systems
Distinction

Instituto Tecnológico y de Estudios Superiores de Monterrey (Mexico)

- Thesis: A Cost-Engineering Method for Product-Service Systems based on Complexity Science.
- Scholarships: "Beca de Excelencia Posgrado ITESM" (100% of tuition fees), and "Beca CONACyT" (living expenses).
- Main Subjects: Manufacturing Systems Automation, Research and Innovation Methods, Product Design, Advanced Manufacturing Materials, Matrix Algebra and Optimization, Distribution Theory, Forecasting and Regression Analysis.

Apr2016 – May2017

Data Science Specialization
Johns Hopkins University (MOOC - Coursera)

- Core modules: R Programming, Getting and Cleaning Data, Exploratory Data Analysis, Reproducible Research, Statistical Inference, Regression Models, Practical Machine Learning.

Aug2010 – May2015

Industrial Engineering with minor in Systems Engineering
Distinction

Instituto Tecnológico y de Estudios Superiores de Monterrey (Mexico)

- Scholarship: "Beca de Excelencia Profesional ITESM" (90% of tuition fees).
- Main Subjects: Work Design, Industrial Facilities Planning, Statistical Quality Control, Projects Engineering, Operations Research 1, Operations Research 2, System Dynamics, Supply Chain Planning and Control, Statistical Engineering, Engineering Economics, Supply Management and Inventories, Manufacturing Processes, Production Management, Discrete Event Simulation, Integrated Manufacturing Systems, Manufacturing Strategies, Process Optimization and Design Laboratory, Process Design and Improvement Methodologies, Logistic Systems, Strategic Planning, and Quality Systems.

Jan2014 – Jun2014

International Exchange Program
Jönköping School of Engineering (Sweden)

- Courses: Sustainable Production, Integrated Product and Production Development, Supply Chain Design, Entrepreneurial Performance and Information Technology Management.

WORK EXPERIENCE

Nov2017 – August2018

Junior Research Fellow

Research Group on Industrial Engineering, Logistics and Service Operations (CELS) - University of Bergamo (Italy).

- Cost estimation of complex Industrial Product-Service Systems.
- Design of robust complex Industrial Product-Service Systems under uncertainty.
- Design of outcome-based contracts for Industrial Product-Service Systems.
- Part of the Organization Committee of the 2018 IFAC Symposium on Information Control Problems in Manufacturing (INCOM 2018).

Research

Aug2015 – May2017

Junior Research Fellow

Advanced Manufacturing Research Group – Instituto Tecnológico y de Estudios Superiores de Monterrey (Mexico).

- Research on Cost-Engineering in Product-Service Systems PSS (see "publications" section).
Research

Jun2016 – Dec2016

Visiting Research Fellow

Research Group on Industrial Engineering, Logistics and Service Operations (CELS) – University of Bergamo (Italy).

- Research on Cost-Engineering and Complexity Science in PSS (see "publications" section).
Research

Jan2015 – May2015

Internship: Industrial Engineer

GlaxoSmithKline GSK (Pharmaceutical Plant) (Mexico)

- Operational Excellence and Continuous improvement program.
- Design and Implementation of Performance Management System in 8 production lines and warehouse.
- Design and Implementation of a Manual Packaging Manufacturing Cell.
- Design and Implementation of KPI Administrative Process.
- Optimization of the Production Planning System.
- Design and Implementation of a Continuous Improvement program in a physiochemical laboratory.

Pharmaceutical

PERSONAL SKILLS

Mother tongue(s)

Spanish

Other language(s)

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	
English				
C2	C2	C2	C2	C2
TOEFL IBT – 112				
Italian				
B2	B1	B2	B2	A2

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user

Communication skills

Excellent verbal and writing communication skills gained through international experience as an exchange student in Sweden, as a visiting research fellow in Italy, and as a research student in the UK: articulate, emphatic, open-minded, clear, respectful, collaborative, concise, confident, convincing, diplomacy oriented, logical, multilingual, negotiator, teamwork oriented.

Organisational / managerial skills

Excellent organisational and managerial skills gained through both individual and teamwork research projects: accurate, adaptable, analytical, assertive, coordination oriented, critical thinking oriented, empowerment oriented, facilitator, flexible, honest, good listener, motivated, organized, patient, good planner, responsible, strategic thinking oriented, team player, management of uncertainty oriented.

Digital competence

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Proficient user	Proficient user	Proficient user	Proficient user	Proficient user

Levels: Basic user - Independent user - Proficient user

- Proficiency in office suite (word processor, spread sheet, presentation software).
- Proficiency in R programming language.
- Proficiency in Flexsim simulation software (3D Discrete Event Simulation).
- Proficiency in Arena simulation software (Discrete Event Simulation).
- Proficiency in Vensim simulation software (Systems Dynamics).
- Proficiency in Visio software (Process Mapping).
- Proficiency in LINDO optimization software (Linear Programming).
- Independent user of RNetLogo (Agent-based Simulation).

Other skills

Guitar player

Driving licence

Not European license.

ADDITIONAL INFORMATION

Publications and Conference Presentations

- A Comprehensive Description of the Product-Service Systems' Cost Estimation Process: An Integrative Review. (In Press) International Journal of Production Economics.
- A System Quality Attributes Ontology for Product-Service Systems Functional Measurement based on a Holistic Approach. 8th CIRP IPSS Conference – Product Service Systems across Life Cycle. Jun2016, Bergamo (Italy).
- Towards a Cost-Engineering Method for Product-Service Systems based on a System Cost Uncertainty Analysis. 8th CIRP IPSS Conference – Product Service Systems across Life Cycle. Jun2016, Bergamo (Italy).
- A Cost-Engineering Method for Product-Service Systems based on Stochastic Process Modelling: Bergamo´s Bike-Sharing PSS. 9th CIRP IPSS Conference – Circular Perspectives on PSS. Jun2017, Copenhagen (Denmark).

Past Projects

- "PrepaNet" – social service project for tutoring people with low resources that desire to finish the high school degree level. Tutoring and management of "Physics" course.
- Consulting project for process improvement and optimization in a Mexican SME machine-metalworking company.

Awards

- "Mención Honorífica de Excelencia" in M.Sc Manufacturing Systems (equivalent to 1st class honours degree).
- Highest Academic Average - M.Sc Manufacturing Systems.
- CENEVAL National Award to Academic Excellence (B.S. Industrial Engineering).
- "Mención Honorífica de Excelencia" in B.S. Industrial Engineering with minor in Systems Engineering (equivalent to 1st class honours degree).
- Highest Academic Average - B.S. Industrial Engineering with minor in Systems Engineering.