



# CRISDALITH CACHUTT ALVARADO

PHD. IN ENGINEERING. INDUSTRIAL AREA  
RESEARCH PROFESSOR

## PROFILE

Professor and Researcher with twenty years of experience in the different areas of Industrial Engineering. I have been a professor in undergraduate and postgraduate courses in Venezuela and Mexico. I developed research and applied projects in Ergonomics, Safety, and Industrial Hygiene in Venezuela. My research lines of interest are Operations Management and Circular Economy, specifically developing sustainable materials. I have scientific publications in recognized journals. In addition, I have participated in applied projects in manufacturing companies.

- Scopus: 57189341878
- Publons: Web of Science  
ResearcherID N-7584-2018
- Google Scholar:  
<https://scholar.google.com/citations?hl=es&user=NiFlr-UAAAAJ>
- Orcid: <https://orcid.org/0000-0003-1783-4776>

## CONTACT

PHONE:

+525544439655

+524499106219 ext. 7291

+524499106200 ext. 7339

CORREO ELECTRÓNICO:

[ccachutt@up.edu.mx](mailto:ccachutt@up.edu.mx)

[crisdalith@gmail.com](mailto:crisdalith@gmail.com)

## EDUCATION

### PhD in Engineering. Industrial Area

Universidad de Carabobo. July 2016. Doctoral thesis: "Model of training of human talent, for work - family integration".

### Specialty in Philosophical Anthropology

Universidad Panamericana Campus Aguascalientes, July 2019

### Master in Business Administration, Mention Management

Universidad de Carabobo. August 2008. Thesis: Measurement of the quality of services in a software implementation company

### Teacher Training Course.

Universidad de Carabobo. Cohort 1 of 2007.

### Industrial Engineer

Universidad de Carabobo. July 1997- December 2001

## WORK EXPERIENCE

### Universidad Panamericana. Campus Aguascalientes, México.

**Research professor in Operations Management and Circular Economy (Faculty of Engineering July 01, 2018 To present).** Teach the subjects in bachelor's degree: Accounting and Costs, Introduction to Logistics, Planning and Production Control. Teach the subjects in postgraduate in the Master of Value Chain, Module: Demand Planning.

**Director of the Industrial Engineering Degree (Faculty of Engineering July 01, 2018 – July 2022).** Attention of students of all semesters and support for promotion for new income. Development of agreements and projects with companies and other universities

### Universidad de Carabobo.

### Professor of Exclusive Dedication, Research professor and Director of the School of Industrial Engineering

Faculty of Engineering April 02, 2002 - January 18, 2018

Professor in the Hygiene and Industrial Safety, Ergonomics, Business Administration, Management, Industrial Costs, Material Handling, Industrial Plants, Method Engineering, Introduction to Design, Industrial Projects in Management and Engineering Departments. Teaching and Advisor of Degree Works both undergraduate and graduate. Research in postural ergonomics, cargo handling and psychosocial risk factors, specifically in Work-Family Integration, as a factor of greater productivity in organizations.



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## RESEARCH INTEREST

- Operations Management, Industrial 4.0 in SMEs
- Circular Economy, Development of Sustainable Materials
- Work and Family Balance and effect on employee productivity
- Ergonomics, Safety and Industrial Hygiene

## RESEARCH PROJECTS

**Fondo Fomento a la Investigación UP 2019.** A Bioplastic based on orange peel was developed through the financing obtained, which will be used in biodegradable containers. This formulation is currently in the patent process both in Mexico (IMPI) and internationally (PCT). Check details: <https://www.trampoline.network/innovation/33>

Currently, other formulations are being studied using different organic waste, such as mangoes and egg shells. This last project is a specific request from a company that wants to use the eggshell residues from its process to replace the current packaging with new biodegradable ones.

## PAPERS

- Cachutt-Alvarado, C., Sánchez-Gómez, C., Berger, P. & Velasco, J. (2023). Industry 4.0 Maturity Models in SMEs, Mexico Context. Paper accepted at: 4th South American International Conference in Industrial Engineering and Operations Management (IEOM), Lima, Peru, May 9-11, 2023. Not available yet.
- Domínguez-Soberanes, J., Berger, P., Hernández-Lozano, L. C., Fraustro-Ortega, D., Macías-Ochoa, M. F., & Cachutt-Alvarado, C., (2022). Bioplastic made of orange peels. Dyna (Spain), Volume 97, Issue 2, Pages 203 – 209. Available from: <https://doi.org/10.6036/10212>
- Berger, P., Cachutt-Alvarado, C., Domínguez-Soberanes, J., Hernández-Lozano, L. C. Fraustro-Ortega, D., Macías-Ochoa, M. F., & Licea-Domínguez, S. (2020) Biopolymers obtained from orange waste based on a decision tree. Paper presented at: 2020 IEEE ANDESCON. Available from: <https://doi.org/10.1109/ANDESCON50619.2020.9271999>
- Berger, P., Cachutt-Alvarado, C., Fraustro-Ortega, D., Macías-Ochoa, M. F., Domínguez-Soberanes, J., & Hernández-Lozano, L. C. (2019). Biodegradable Polymer Obtained from Orange Peels. Paper presented at: IEEE 39th Central America and Panama Convention, CONCAPAN; 2019 Novem, 4–8; Panama Available from: <https://doi.org/10.1109/CONCAPANXXXIX47272.2019.8977093>
- Cachutt-Alvarado, C., & Ortiz Zavala, F. (2016). Las competencias como facilitadoras de la integración trabajo familia. Revista Venezolana de Gerencia, 21(73),86-101. ISSN: 1315-9984. Available from: <https://www.redalyc.org/articulo.oa?id=29045347006>
- Cachutt Alvarado, C. (2015). Evaluación 360 grados en la priorización de la formación en integración trabajo –familia. Ingeniería Industrial. Actualidad y Nuevas Tendencias, IV(14),53-60. ISSN: 1856-8327. Available from: <https://www.redalyc.org/articulo.oa?id=215047422006>
- Cachutt Alvarado, C., & Ortiz Zavala, F. (2015). Medición de la integración trabajo-familia en organizaciones. Industrial Data, 18(2),7-13. ISSN: 1560-9146. Available from: <https://www.redalyc.org/articulo.oa?id=81643819002>