

César Manuel Valencia Castillo

Education

| | | |
|-----------|--|-----------------------|
| 2010-2013 | University of Guanajuato (Mechanical Engineering PhD) | Salamanca, Gto., Mex. |
| 2004-2005 | Institute of Languages Yucatán, A.C. (English Specialty) | Mérida, Yuc., Mex. |
| 2003-2005 | Technological Institute of Mérida (Master of Science in Mechanical Engineering) | Mérida, Yuc., Mex. |
| 2001 | Technological Institute of Mérida (Degree in Energy Savings) | Mérida, Yuc., Mex. |
| 1996-2001 | Technological Institute of Mérida (Mechanical Engineering) | Mérida, Yuc., Mex. |

Interest

- Two-phase flow, for diabatic and adiabatic systems.
- Experimental activity at micro- and hyper-gravity.
- Process and analysis of images.

Languages

- Spanish. Native language
- English. TOEFL ITP score: 567, March 2014
- Italian. Speaking and listening.

Research Experience

| | |
|----------------|---|
| 2012-2014 | Italian Agency for New Technologies, Energy and Sustainable Economic Development (ENEA). Rome, Italy Laboratory of Thermal-Fluid Dynamics Applied to Energetic Systems Advisors: Gian Piero Celata and Giuseppe Zummo PhD -Flow boiling of refrigerant in mini tubes, experimental activity (MICROBO facility). -Two-phase flow (water-gas) in mini tubes, experimental activity (BARBIE facility). -Data and image analysis of flow boiling and two-phase flow phenomena. |
| 2008-2009 & | Scientific Research Center of Yucatan (CICY). Unity of materials. Advisor: Pedro Jesús Herrera Franco PhD |
| 2004-2006 | -Stress and strain tests on composites (carbon fiber/epoxy). -Manufacturing of composite specimens (carbon fiber/epoxy), laminae and laminates. -Simulation of stress and strain on composites (carbon fiber/epoxy). |

Work Experience

| | |
|---------------|--|
| 2016- | Coordinator of Mechanical Electrical Engineering, Universidad Autónoma de San Luis Potosí, CARHS, Tamazunchale, México |
| 2015- 2010 | Professor and Researcher, Universidad Autónoma de San Luis Potosí, CARHS, Tamazunchale, México Professor at “Universidad del Valle Campus Mérida” (“Mechanisms”) |
| 2009-2010 | Professor at “Instituto Tecnológico de Progreso” (“Thermal Machines and Equipment”, “Steam Generators”, “Control Course”, “Hydraulic Systems of Power Transfer”, “Heat Transfer”, “Computer Aided Design and Engineering”, “Control Engineering”, “Electromechanical Drawing”, “Research Seminar 2”, “Pneumatic and Hydraulic Circuits”) |
| 2007-2008 | Director at “Colegio de Bachilleres del Estado de Yucatán Plantel Tixkokob” |
| 2006-2007 | Director at “Colegio de Bachilleres del Estado de Yucatán Plantel Sotuta” |
| 2005 | Professor at “Instituto Tecnológico Superior de Progreso” (“Industrial Maintenance”) |
| 2003 | Quality auditor at “Metaplus”(Auditor in Monitoring Test, Process and Material Inspection for Manufacturing of Refrigeration Equipment) |
| 2000-2003 | Supervisor and Planner of Electric Facilities at “Grupo Eléctrico Azteca” (Systems of Natural Land, Electrical Generators, Electrical Energy Saving, Power Panels, Electrical Substations, Electrical Load Increasing, etc., for TELMEX) |
| 1998-1999 | Advisor of Mathematics, Physics and Chemistry for Secondary and Preparatory Students at School “Ciencias Exactas” |