

CV Profile (max. 2 pages length)

1 *Pedro Pablo Yurrita Arce*

Research interests

- Research and development of energetic materials and pyrotechnics, simulation of combustion thermodynamics
- Development of gas analytic methods, mass flow determination for transient systems
- Renewable energy alternatives, especially generation, reconversion or application of hydrogen
- Gas technology and process engineering in gas safety technology
- Bioenergy and generation of bio gas in the field of energy technology
- Catalysis and chemical kinetic
- Simulation of thermo-chemical processes and fluid dynamics
- Research in the field of coatings, thermoplastics and adhesives

Education

PhD: PhD candidate. Karlsruher Institut für Technologie, Karlsruhe, Germany. (18/08/2017- today)

Master's Degree: Chemical Engineering (Licenciatura en Ingeniería química) Universidad Rafael Landívar, Guatemala, Guatemala (12/01/2006- 03/12/2010)

Experience

Jr. Expert in Energetic Materials 10/2019 – 03/2020 (6 Months)

GWP Gesellschaft für Werkstoffprüfung mbH, Zorneding, Germany.

- Processing orders from the airbag laboratory
- Material characterization of pyrotechnic propellants
- Research and Development of new test methods in the field of airbags
- Organizational support for the laboratory management

Research Associate 10/2013 – 09/2019 (72 Months)

Fraunhofer-Institut für Chemische Technologie ICT, Pfinztal, Germany.

- Literature research and thermodynamic calculation of combustion chambers
- Coordination of research projects in the field of energetic materials
- Development of gas mass flow and gas temperature measurement methods
- Research and Development of measurement methods of energy performance of airbag inflators
- Design of experiments and measurement data analysis

- Acquisition of projects from national funding programs and the Automotive industry.
- Preparation of scientific publications

Project engineer 02/2011 – 09/2012 (20 Months)

Grupo Solid S.A. Guatemala City, Guatemala.

- Project engineering, process design and quality assurance in Paints and Coatings.
- Support of the project management for the commissioning of the new Production facility
- Formulation and development of paints and coatings in the laboratory

Contact information

Contact Person: Pedro Pablo Yurrita Arce

Email address: pedroyurrita@gmail.com