

Ponferrada, December 12<sup>th</sup> of 2012

To whom it may concern:

I hereby certify that **Luis Puerto** has worked at Fundación Ciudad de la Energía, CIUDEN (City of Energy Foundation), from May 2009 to December 2012. His last position was **Technology and Innovation Coordinator, at the Technology and Systems Department**.

The Fundación Ciudad de la Energía was established in 2006 under the authority of Spanish Government and its aim is the implementation of research, development and innovation programs related to energy and environment and social and economic development of El Bierzo County, in the León province in Spain. The main activity fields of CIUDEN are capture, transport and storage of CO<sub>2</sub>, development of El Bierzo and Laciana Counties and creation and management of *Ene. Museo Nacional de la Energía* (Ene. National Energy Museum).

The role of the Technology and Systems department was the research, development and innovation of Information and Communications Technologies, as well as geolocation technologies related to energy and tourism. Some other tasks included support to network infrastructures, servers and users working at the Foundation.

**Luis Puerto** developed the following tasks at Fundación Ciudad de la Energía:

- Technology and Innovation Area Coordinator. At this position he was in charge of a team of four members with different professional profiles as Computer Engineer, Telecommunication Engineer and Computer Programmer Technician. Some of the tasks developed by the team were:
  - Development, implementation and management of *Ene. térmica* public wifi network for visitors.
  - Development, implementation and management of *Ene. térmica* ticket selling system.
  - Geolocation system development for people by GPS and SMS through web and mobile interface.
  - Development and implementation of innovative systems in the field of Information and Communications Technologies and Geographic Information Systems, such as Cloud Computing systems, collaborative and storage systems on cloud and systems based on the new ways of communication and information management.
  - Management and maintenance of servers and computer systems that support the Foundation's Geographic Information Systems and are used to develop other projects.
- Co-responsible with the Head of Technology and Systems Department of a project to develop a digital platform for the future *Ene. Museo Nacional de la Energía*. This project would develop the future web page for *Ene.* and certain mobile applications to use in guided visits at *Ene.* and *Territorio Museo* (Museum Territory) using geolocation and augmented reality. The budget for this project was more than one million euros.
- Responsible of the Geographic Information Systems (GIS) Area which gave service to the Foundation performing the following tasks:
  - Management of geographical information systems software (ArcGIS) and its licenses for the Foundation staff.

- Management and maintenance of Foundation project's geodatabases.
  - Cartography elaboration process, both in paper or in digital format, in order to fulfill the needs of the Foundation. This includes several map editions, with more than 15000 copies per edition, so as to help travelers coming to El Bierzo y Laciana Counties, as part of the tourism project framework.
  - Development and start up of a web GIS application, using ArcGIS Server, for solar radiation calculation and renewable energies promotion in El Bierzo and Laciana Counties.
  - Collaboration in projects where vision and territorial analysis were needed using GIS techniques.
  - Participation in Heritage Inventory of El Bierzo and Laciana Counties project, helping to planfield works, develop the inventory and coordinate and create a database. Also, subsequent analysis of data using GIS methodologies.
  - Development of a training program consisting of more than 500 hours, Foundation staff and other people in Geographic Information Systems, in collaboration with ESRI Spain.
- Office technician for "Current pest measurement of European chestnut from El Bierzo (León, Spain)" project, planning field work and managing and analyzing part of the obtained data.

**Luis Puerto** was able to carry out these tasks in a responsible manner, therefore I recommend him sincerely. Also, he was able to successfully complete different kinds of tasks, even in high pressure situations. Luis Puerto is a responsible and creative person who can come up with innovate solutions and capable of teamwork. Moreover, he has shown great capacity when managing and planning big projects.

I hereby confirm that I have known Luis Puerto since the date indicated above and I consider hi is a highly professional and responsible person who is perfectly qualified to carry out the work require by his position.

Should you require further information, please do not hesitate to contact me by telephone on (+34) 987 456 323 or by e-mail at: [REDACTED]

Yours faithfully



[REDACTED]

Mrs Marta Vivaracho Ruiz

Manager Director

Fundación Ciudad de la Energía