

## Juan Carlos Chong Portillo

### Address

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### Research Topic

Project title: Novel bi-radial air turbine integration in floating OWC  
Related Work Packages: WP6 - Technology development

### Short Biography

Mechanical engineer holding a European Master degree in Renewable Energy from Hanze University of Applied Sciences (The Netherlands), with specialization in marine renewable energy at Instituto Superior Técnico - University of Lisbon (Portugal), and a Master degree in Industrial Project Management from URBE (Venezuela), and advanced studies in International Business at Walden University (USA). Among my interests, it is to contribute effectively to the development of the emerging marine renewable energy industry.

### Publications

Henriques, J.C.C., Chong, J.C., Falcão, A.F.O., Gomes, R.P.F., "Latching control of a floating oscillating water column wave energy converter in irregular waves", Proc. 33rd International Conference on Ocean, Offshore and Arctic Eng., San Francisco, CA, USA, 2014.

### Current Research

The research concerns the design of a new floating OWC device and the integration of the novel bi-radial air turbine being developed at IST/UL. The project involves the floating OWC's hydrodynamic, as well as the turbine's design, and the estimation of the system's performance from advanced numerical codes validated with experimental work.

### Supervisor(s)

Prof. Luís Manuel de Carvalho Gato