

JOSÉ ASENJO CASTILLO

Residencial La Lima, Casa A-23, Cartago, Central 30102 | H: (506) 25526486 | M: (506) 84236846 | jasca.tec@gmail.com | 24 Years Old | Single |

SUMMARY

Currently student of Electronic Engineering at Tecnológico de Costa Rica
Researcher at the Plasma Laboratory for Fusion Energy and Applications, leader in the area of Industrial Applications, supporting and encouraging the development of projects related to potential plasma applications at industry.
Ease of speech, ability to research, organize teams and lead them to the fulfillment of goals. Ability to work under pressure and solve problems.

LANGUAGES

Spanish -- Native language
English -- Intermediate professional competence

HIGHLIGHTS

Excellent analytical skills	Electronic test tools
Cooperative team member	C++
Outstanding interpersonal skills	VHDL and Verilog language training
Attention to detail	R&D
Quick learner	Hardware testing experience
Problem solving	Meticulous
Adaptability	Technical plan execution

ACCOMPLISHMENTS

At TEC and Plasma Laboratory for Fusion Energy and Applications:

- Directed the development and creation of several operating protocols for laboratory experiments and new equipment
- Developed and implemented an internal communication tool for access technical data and documentation of the laboratory
- Developed and implemented an O2 sensor oxygen sensor for atmosphere monitoring and control of gas leaks
- Development and creation of operation protocol for vacuum and gas injection in the SCR-1
- Assistant in the organization of 15th Latin America Workshop on Plasma Physics and associated events
- Participation as a student representative on the Council of Physics School (2010-2011)
- Development and implementation of several projects in areas of embedded systems, digital systems, control and communications

EXPERIENCE

06/2010 to Current

Research Assistant

PlasmaTEC - Cartago, Costa Rica
Power sources and systems for SCR-1 (2010-2011)
Industrial Applications (2012-Current)

EDUCATION

Electronic Engineering
Tecnológico de Costa Rica - Cartago Costa Rica
2008-Present

INTERESTS

R&D
Digital systems
Hardware implementation
Process diagnostics
Project management

EXTRA-ACADEMIC TRAINING

School on Plasma Physics ICPP-LAWPP 2010
40 hours, Comisión Chilena de Energía Nuclear, Santiago de Chile
Agosto 2010

LabView Core 1&2
40hours, National Instruments, Lagunilla de Heredia
Marzo 2013

1st Costa Rica Summer School On Plasma Physics
40 hours, Tecnológico de Costa Rica, San Carlos
Enero 2014

ICOPS/Beans Low Temperature Atmospheric Pressure Plasmas
16 hours, Marriott Wardman Park, Washington D.C.
Mayo 2014

INTERNSHIPS

Instituto Superior Técnico: Instituto de Plasmas e Fusão Nuclear (IPFN)
Topic: Emission spectroscopy of a microwave plasma: Set-up Design and Experimental Procedure
24th November to 19th December 2014, Lisboa, Portugal.

PUBLICATIONS

As author

J. Asenjo, J. Mora, A. Vargas, L. Brenes, A. López, R Montiel, J. Arrieta & V.I. Vargas. **Atmospheric- Pressure Non-Thermal Plasma JET for biomedical and industrial applications**, JPCS 15th Latin America Work Shop on Plasma Physics, 27-31 January 2014, San José Costa Rica.

As Coauthor (Last 4 publications)

G.Segura, P.Guzmán, P. Zuñiga, S.Chaves, Y. Barrantes, G. Navarro, J. Asenjo, S. Guadamuz, V.I. Vargas & J. Chavez. **Copper Deposition on Fabrics by RF plasma sputtering for medical applications**, JPCS 15th Latin America Work Shop on Plasma Physics, 27-31 January 2014, San José Costa Rica.

V.I. Vargas, J. Mora, J. Asenjo, E. Zamora, C. Otárola, J. Carvajal, J. Gonzales, C. Soto, C. Piedras, L. Barillas, S. Guadamuz and C. Ribeiro. **Constructing a Small Modular Stellerator in Latin America**, JPCS 15th Latin America Work Shop on Plasma Physics, 27-31 January 2014, San José Costa Rica.

C. Ribeiro, J.Gonzales, A. J. Balba, D.H. Fallas, J.S. Arbustini, V. I. Vargas, J. Asenjo, J.Mora, E.Zamora, S. Guadamuz, J.J. Herrera, E.Chavez. **Overview of the spherical tokamak MEDUSA-CR1**, JPCS 15th Latin America Work Shop on Plasma Physics, 27-31 January 2014, San José Costa Rica.

J. Mora, V. I. Vargas, C. Otárola, C. Piedra, W. Jimenez, L. Esquivel, R. Esquivel, K. Sanchez, J. Gonzales, J. Asenjo and L. Fonseca, **Engineering of the Stellerator of Costa Rica: SCR-1**, JPCS 15th Latin America Work Shop on Plasma Physics, 27-31 January 2014, San José Costa Rica