



Alejandro David Erazo Guachamin

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Work Experience

Punto-net, Quito-Ecuador - *Technical Junior*

2007-2009

- Installation of internet ports, technical service, equipment review and resolution of internet connection problems

Altacumbre, Quito-Ecuador- *Tutor of math and physics students.*

2015-2016

- Help young people in school, college and university with problems in mathematics and physics by giving private lessons, explaining tasks and problems and how they could solve them.

Hueca Estudiantil, Quito-Ecuador - *Tutor of math and physics students.*

2018-Present

- Help young people in school, college and university with problems in mathematics and physics by giving private lessons, explaining tasks and problems and how they could solve them.

Laboratory of Astroparticles in the Escuela Politécnica Nacional, Quito-Ecuador

2017-Present

- Development of the titling project "Barometric and Temperature Corrections for the flow of charged Astroparticles in a Cherenkov Water detector"
- Acquisition and data processing for the calibration of a cherenkov detector.
- Simulations for a charged particle detector with the use of the Corsika computer package.

Education

Quito-Ecuador-*High School Degree in Electronics*

2001-2007

Instituto Tecnológico Central Técnico.

Quito-Ecuador- **Bachelor's degree** in Physics (In process)

2012-2019

Escuela Politécnica Nacional

Courses

- Escuela de Óptica: Escuela Politécnica Nacional, Láseres otras aplicaciones 20 hours.
- XIII Encuentro de Física 40 hours
- Escuela de Astrofísica: Escuela Politécnica Nacional, Problemas actuales de la Astrofísica.
- VII School on Cosmic Rays and Astrophysics 80 hours
- 1er Taller Andino de Instrumentación de Bajo Costo y Fuente Abierta 24 hours

Presentations in Conferences

- "Calibration and Operation of an autonomous Water Cherenkov Detector using Red Pitaya in Quito." Rosero C., Cando J., Vásquez N., Carabalí C. and **Erazo A.**, 36th International Cosmic Ray Conference, Wisconsin, USA, Julio 2- Agosto 1, 2019.
- "Simulación de Chubascos Atmosféricos Extensos Generado Por Partículas Primarias entre 10 GeV y 100 TeV." Jhonathan Quirola, **David Erazo**, Nicolás Vásquez., Revista Politécnica (Septiembre 2015-Marzo 2016), Vol 37, No 1 (2016).
- Curso de Astronomía y Astrofísica -Network for Astronomy School Education (NASE), Instituto Espacial Ecuatoriano (IEE), Ministerio de Educación del Ecuador., Latacunga-Cotopaxi Ecuador, Marzo 13 y 14 del 2019., Exhibitor.
- Curso de Astronomía y Astrofísica -Network for Astronomy School Education (NASE), Coaque-Manabí, Ecuador, Septiembre from 2nd to 6th of 2019., Expositor exhibitor

APTITUDES AND SKILLS

Languages

- Native language: Spanish.
- English:

Lecture : B2

Writing: :B1

Understanding: B1

Technical Strengths:

- Additional Software; Ubuntu, Latex, Jupyter Notebook, Microsoft Office.
- Programming languages, Fortran, C++, Python, Matlab.

Personal Strengths

- Amateur mountaineer..
- Participant in sporting events (Marathons and Cycling).
- Participant in Volunteer events.

References:

Dr. Nicolás Vásquez

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Physics Department

Escuela Politécnica Nacional

Ladron de Guevara E11-253

Quito- Ecuador

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U.S. Embassy

Professional Exchange Coordinator

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Quito- Ecuador

