

Manuel Morgado

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EDUCATION

UNIVERSITY SIMON BOLIVAR BS IN PHYSICS

Expected 2016 | Caracas, Venezuela
Conc. in Quantum Information, High Energy Physics and Astronomy
Undergraduated Thesis: on course
Field: Superconductive Quantum Computing

HIGH SCHOOL U.E.C.A "CRISTO REY"

Grad. Jun 2008 | Caracas, Venezuela

LINKS

LinkedIn:// Manuel Morgado
Twitter:// @m_morgado10
Facebook:// manuel.morgado

COURSES

UNDERGRADUATE

Analogue and digital Electronics
Astronomy
Basic and Advanced Physics Labs
Classical Mechanics
Computational Physics
Electromagnetic Theory
Fluid Mechanics
Mathematical Methods
Particle Physics
Quantum Information
Quantum Mechanics
Solid-State Physics
Statistical Mechanics
3-D Reconstruction by Fringe Analysis

SKILLS

PROGRAMMING

Matlab • Python • ROOT • \LaTeX
• C++ • Fortran • LabView

Familiar:

Maple • Wolfram Mathematica
• TOPCAT • SolidWorks • MacOS
• Linux • Windows • Microsoft Office

LANGUAGES

- Spanish (mother language)
- English (fluid)
- French (basic)

OTHER INTERESTS

2012-13 USB Futsal Indoor Soccer team member.
Teaching Assistant of Physics.

EXPERIENCE

DIDACTRON PROJECT (USB) | STAFF MEMBER

June 2014 – Sep 2015 | Caracas, Venezuela

- Performing guided tours along the different experiments of physics, mathematics, chemistry and biology for college and high school students. Advisor: Dannys Rumbos (didactron@usb.ve)
- Developing and building new experiments for the project. Advisor: Dr. Jose Ruiz (jgruiz@usb.ve)

INDENE (ENERGY INSTITUTE USB) | TEAM MEMBER

March 2010 – Dec 2011 | Caracas, Venezuela

- Developing and building a wind turbine using composite materials (fiber glass and Balsa lumber). Advisor: Ezequiel Trejo (egtrena@gmail.com)
- Building a desolation machine. Advisor: Cesar Ernesto (pablitedved@hotmail.com)

FORMULA SAE USB TEAM | POWERTRAIN CREW

Sep 2008 – March 2010 | Caracas, Venezuela

- Designing, testing and setting up power train parts.
- Designing and building chassis, aerodynamics and suspension parts.
- Participant and staff team member of the 8th Congress of automotive engineering (2009). Organized by Formula SAE USB and Baja SAE USB.
- Participant and staff member of F-SAE USB in the F-SAE competition 2009 in MIS (Michigan International Speedway). Advisor: Nathaly Moreno (nmoreno@usb.ve) and Sergio Diaz (sdiaz@usb.ve)

OTHER EXPERIENCE

PROGRAM OF ASTRODYNAMICS AND ASTRONOMY

| ENROLLED STUDENT

July 2015 – August 2015 | Mérida, Venezuela

Taking part of 1-month Undergraduate Astronomy Program focused in astrodynamics, organized by the Venezuelan Center of Astronomical Research.

INTRODUCTION TO PARTICLE PHYSICS COURSE | ENROLLED STUDENT

Sep 2014 – Jan 2015 | Caracas, Venezuela

Taking part of the course of Particle Physics organized by a group of physics of CERN (CELAVE2-VEN) and the final student project named "Identification of Higgs to WW events in proton-proton collisions at the LHC". Discriminating kinematic variables in order to separate the Higgs boson signal from the WW SM background. Advisor: Dr. Heberth J. Torres (heberth3@gmail.com)

ADVANCED PHYSICS LABORATORY USB | DEVELOPER OF A NEW EXPERIMENT

Jan 2014 – Jul 2014 | Caracas, Venezuela

Working with Prof. Jesus Gonzalez-Laprea (jeglaprea@usb.ve) to create a new experiment for Advanced Physics Laboratory (subject code: FS-5482), about of "3D shape measurement by fringe computational analysis".

AWARDS AND RECOGNITION

2014	Staff member for Physics in the week of USB careers.
2011-16	Univ. Simon Bolivar Scholarship.
2009	Staff Member of the 8th Congress of automotive engineering.
2009	27th/120 Formula SAE Michigan Competition.
2008	2nd Place "Rocket Competition" of Univ. Simon Bolivar .