

# JOSE F. NIEVES RODRIGUEZ

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**OBJECTIVE** To develop a professional career teaching and doing research in a post-secondary or higher-learning institution.

## EDUCATION

August 2006  
October 2009 Polytechnic University of Puerto Rico,  
Master Degree in Electrical Engineering

August 1998  
May 2003 University of Puerto Rico, Rio Piedras Campus  
Natural Science Faculty, Bachelor degree in Physics

## EXPERIENCE

July 2006  
Present Polytechnic University of Puerto Rico  
Centro de Progreso Universitario (CPU)  
Tutoring of Physics and Mathematics  
Experience teaching Physics I, II, III, Dynamics,  
Numerical Analysis and Pre-calculus I, II and Calculus.  
Development of online resources for tutoring sessions  
using email and internet messenger applications as  
tools. Elaboration of several modules for Physics that  
include a short explanation and the solved problem  
with all details during the procedure.  
Supervisor: Iris Miranda

August 2005  
May 2006 Polytechnic University of Puerto Rico  
Graduate Research Assistant  
Design, simulation and analysis of several type of antennas.  
Matlab was the tool used for numerical computations and a  
cluster of 32 nodes was used to run the programs.  
Advisor: Dr. Nader Farahat

July 2004  
July 2005 Mova Pharmaceutical Corporation  
Research and Development Center, Validation Department  
Computer and equipment validation  
Preparation, execution and documentation of protocols for  
the validation of several industrial equipments.  
Supervisor: Claribel Carrasquillo, Gerardo Delgado

January 2003  
May 2004 University of Puerto Rico, Rio Piedras Campus  
Material Characterization Center, Research Assistant  
Preparation and characterization of different chemical  
ceramic targets and thin films. The work was given in a  
presentation entitled "Preparation and characterization of  
ZnO ceramic targets and thin films" at a convention for the  
students of the NASA program in Natural Science Faculty.  
Advisor: Dr. Ram S. Katiyar. Supported by NASA

**SKILLS**

Knowledge of mathematics, theoretical and experimental physics.

Experience in the preparation of chemical ceramic targets and thin films used for different analysis such as x-ray diffraction analysis, optical (UV spectroscopy) and electrical (Hall effect measurements) characterization.

Experience in preparation, execution and documentation of protocols for the validation of equipments such as Metal detector, Vial washer machine, Labelling machine, Tablet deduster, Tablet counter machine and Cottoner machine.

Experience teaching and tutoring students using different methods, including internet resources such as blackboard, email, messenger and classroom.

Good knowledge of computer operating systems (Unix, Linux, FreeBSD, Windows), their software applications, computer hardware and electronics, as well as several computer languages including C++, Assembler, Matlab, Octave, Latex and scripting languages.

Ability and training to solve problems independently, collaborate with working teams and learn and use new techniques.

**GOALS**

Complete a doctoral degree in science or engineering related field, and teach and do applied research for a higher-learning institution.

**LANGUAGES**

Spanish and English

**REFERENCES**

Availabe upon request