Alejandro Hernandez Pineda

Electrical Engineer.
Java and Python Developer.

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Professional Qualifications:

Universidad Tecnologica de Torreon. Coahuila, Mexico.
Fulltime professor. [September 2012 – April 2013]

Instituto Tecnologico de la Laguna, Coahuila, Mexico.
Master's Degree in Electrical Engineering - [2010 - 2012]

Instituto Tecnologico de la Laguna, Coahuila, Mexico.
Bachelor of Electronics Engineering - [2006 - 2010]

NIIT, Durango, Mexico
Certification as J2EE Software Developer - [2008 - 2010]

LinkedIn Profile: http://www.linkedin.com/in/alehpineda
CodeAcademy Profile: http://www.codecademy.com/deathscythe

Experience:

Company. Universidad Tecnologica de Torreon. From September 2012 to April 2013.
Position. Fulltime professor.
Activities. Administrative, scholastic, and formative.
Responsibilities:

- Prepare and give lectures based on competency-based education.
- Make periodic reports and assessments of the students.
- Prepare periodic documentation for the CIEES certification.

Computer Proficiency:

Programming languages:

Java. 3 years of experience. Including J2SE, J2EE, JSP, and Servlets.
Python. 1 year of experience. Including Jython, Django, and CPython.
C. 2 years of experience. Arduino projects and university projects.
C++. 1 year of experience. University projects.
SQL. 1 year of experience. MySQL, SQL Server 2008.

Operating Systems:

Windows OS. More than 15 years of experience. Including, Windows 95, Windows 98, Windows XP, Windows Vista, and Windows 7.

Linux OS. 10 years of experience. Mainly, Ubuntu and OpenSuSE.

Mac OS X. 3 years of experience.

Software Packages:

Netbeans, Eclipse, Canopy, Microsoft Office, Open Office, Libre Office, iWorks, Google Docs, Evernote, VirtualBox, Dropbox, Parallels Desktop.

Electronics Proficiency:

Experience working with lab equipment: Oscilloscopes, multimeters, hook multimeters, function generators, and power supplies.

Familiar with the Microchip PIC 16f877.

Experience with the ATMega 328p.

Language Proficiency:

English: TOEFL Test - 600 points [2007]

Thesis Project:

Project Title: Development of an application for the post-processing step of the Finite Element Method applied to electromagnetics using Java.

Abstract: This thesis is about the development of an application for the post-processing step of the Finite Element Method applied to electromagnetic problems, which was developed with Java programming language. The application is designed to display the geometry of motors and power sources; some of the results obtained with this application are included. With the development of this application and throughout the evaluation of the obtained results, it could be determined that the Java language together with the object oriented programming paradigm, both widely satisfy the needs required by the post-processing step of the Finite Element Method.

Papers:

Implementation of a visualizer for the post-processing step of the Finite Element Method using Java. RVP-AI 2012. Acapulco, Mexico.

Other Certifications:

Introduction to Computer Science and Programing, 6.00x. edX. June 10, 2013.
Introductory Algebra Review. UDACITY. May 17, 2013.
Circuits and Electronics, 6.002x. edX. June 12, 2012.