

David Hernandez

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SKILLS

- **Programming Languages:** Java, HTML, CSS, JavaScript, C, SQL, Bash, Assembly, Objective-C, PHP
- **Version Control:** Git
- **Operating Systems:** Windows (7, Vista, 8,10), Unix
- **Office Tools:** MS Word/PowerPoint/ Access 2013
- **Bilingual:** English and Spanish

EXPERIENCE

University of Central Florida

Orlando, FL

2013-2014

Supervisor: Dr. C. David Cooper, P.E.

Environmental Engineering Combustion Research

- Built a Java application for a team of researchers at UCF that served as a virtual model of a real life combustion machine.
 - Designed a simple and user-friendly interface that also used dynamic error checking.
 - Decreased model testing time by allowing researchers to bypass a process of searching and modifying a 290+ page configuration file for every new run.
 - Integrated a data modeling feature utilizing the JFreeChart library.
 - Configured software to allow automatic input/output data storage in both textual and visual format to avoid research data loss.
- › Tech used: Netbeans IDE, Java, GIMP

University of Central Florida

Orlando, FL

Aug-Dec 2013

Systems Software Semester Project

- Wrote a small P-machine and compiler that would generate code for said virtual machine.

University of Central Florida

Orlando, FL

Jan-May 2013

Database Systems Semester Project

- Created a small scale database that modeled that of Amazon.com.
- Reduced data redundancy and increased model efficiency using relational database design principles.

- Model design and validation using SQL and database scripts within mySQL workbench.

University of Central Florida

Orlando, FL

Jan-May 2012

Operating Systems Semester Project

- Wrote a 5k line program in C that simulates an operating system.
- Supported OS features such as CPU and memory hardware, scheduling, etc.

PERSONAL PROJECTS

SleepTalk - Android Application

- Coding an application with similar functionality to Android 5.0's "Do Not Disturb" feature which allows users to select what contacts can disturb them without the need to favorite them.
- › Tech used: Android Studio, Android SDK, Git, Java, XML, Adobe Illustrator

Jun 2015-Present

Calculator - Android Application

- Built a scientific calculator that uses a modified version of a third part mathematical expression parser, CogPar, to serve as a formula calculator.
- › Tech used: Android Studio, Android SDK, Git, Java, XML, Inkscape, GIMP

Nov 2014

EDUCATION

Valencia College - A.S. Interactive Design

Orlando, FL

Jan 2015-Present

Relevant Courses: Web Essentials, Graphic Design Essentials, Information Architecture, Fundamentals of Typography

Oracle Certified Associate, Java SE7 Programmer 1

Sep 2014

**University of Central Florida - B.S. Computer Science w/
Minor in Mathematics**

Orlando, FL

May 2014

Honors: President's Roll, Dean's List

Relevant Courses: Object-Oriented Programming, Database Systems, Operating Systems, Programming Languages, Web Based Information Technology, Systems Software, Processes for Object Oriented Software Development