Monterrey, Nuevo León

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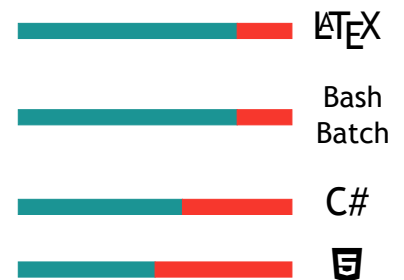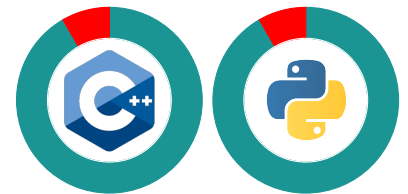✏️ **claudiordgz.com**
🐦 **@claudiordgz**
🐙 **github.com/claudiordgz**
📑 **StackOverflow Profile**

Objective

As I started self learning C++ before my Masters in 2009, I used the Google Styleguide for C++ development. I found this, along with Code Complete and Effective C++, one of the best tools to creating standard code. By learning this, I could tackle more important things such as complex behaviors. I learned there is a lot to do in Artificial Intelligence, and the only way to tackle everything was to research, test, profile results, repeat, until the best solution is found. This process is intense and maybe not fit for everyone, but there is something so alluring about being in the dark and feeling that sensation when you get closer to a solution. I wish to apply my passions for thriving while being close to the technology I feel a huge amount of respect. Working in Google would allow me to not only keep developing and crafting quality solutions, but to be around people who are in the same standards, to me, that is something truly hard to find.

Tech

LaTeX
Bash
Batch
C#

Tools

- Git
- SVN
- Autotools
- Windows
- Linux
- QNX

Professional Experience

AMI GE Automation & Control Innovation   June 2012 - Current

Project: Visual KB / SmartArc

- Provided Customer Support, documenting every single step and creating tutorials reduced customer support from 30 man hours average per project to 1 hour.
- Maintain manual up to speed reducing developers confusion and increasing production of new features.
- Rebuilt the installer application to prevent customer withdrawal from software old look and to improve configuration.

Project: DigitARC PX3

- Developed features for the QNX Embedded System, investigation of Audio Compression to decrease our database files in 60% size without quality compression.
- Provided Customer Support on any issue related, documenting every single step and creating tutorials reduced customer support from 6 man hours average per week to 2 hours per month average.
- Rewrote the Product Manual in LaTeX, added to build system. Modify once, publish on different places.
- Developed C++, Bash and Batch tests for finding breaking points in our system, successfully prevented errors when changes to crucial features of the system were done.

Professional Experience

AMI GE Automation & Control Innovation   June 2012 - Current

Project: DigitARC PX3

- Built deployment tools that detect changes in our product and have allowed our engineers to test the product for correct communications when installing the software for our customers.
- Rebuilt critical FFT calculation using OOD, built proper Unit Tests for Continuous Integration, with this we stopped having calculation errors in the rest of the features and increased our product's reliability.

GE Consumer & Industrial   2008

- Developed 147 scheduled maintenance tasks, one for each equipment, deployed and trained maintenance and production personnel.
- Got the right tools for maintenance tasks, performing all the procurement and obtaining all administrative permissions.
- Performed corrective maintenance when necessary, even if it included getting grease all over me.
- Coordinated preventive maintenance tasks with the maintenance personnel.
- Trained Purchasing Leader, Technology Leader, Maintenance Leader, and Production Leader in the use of PMPro tool so they could maximize their benefits from Preventive Maintenance.

Education

Tec de Monterrey   Monterrey, N.L.

Master in Science with Specialty in Intelligent Systems (2010)

- Member of Professorship of Applied Intelligent Agents in Videogames.
- Specialization in Particle Swarm Optimization and Emergent Behavior Algorithms.

Tec de Monterrey Campus Sonora Norte   Hermosillo, Son

Mechatronics Engineer (2004-2008)

Projects

Phoenix2D Project

Open Source project to allow students to develop their own Player to compete in RoboCup Soccer Simulation. Currently redesigning implementation.

- Created build system using GNU Autotools.
- Created website.
- Create documentation.

Ad Generator

- Developing Cross Platform App to Allow easier Ad Generation for multiple web platforms.