Los Angeles, CA, United States
callirgos01@gmail.com

Carlos Callirgos

I'm a hard working software engineer. I like being passionate about what I work on. I am constantly looking to grow and learn new skills, as well as hone some of my already existing skills.

My experience in R&D has helped me remain nimble and always trying to figure out the best way to meet the product need.

My experience in the medical field has helped me become methodical in my software development process, remaining always vigilant not to stray from the process that keeps our software compliant with the regulatory agencies.

My combined experience in R&D and medical device software, has made me very aware of the need to be fast and nimble to keep up with technology, while making sure the prescribed software development process aids development rather than overburdens it.

Technical Skills

Likes: c python c# microcontroller stm32 git jira

Experience

Prin Software Engineer – Medtronic   *2008 → Current*
bluetooth-lowenergy, iar, c, c#, python-2.7, visual-studio-2010, freertos, stm32, tdd, unit-testing, git, sourcetree, jira

Architect, document, implement, unit test, medical device firmware for a continuous glucose monitoring system platform.(C and python) this platform was used to create several different iterations of products to support a number of different FDA submissions, currently commercially available links below, and a number of pending submissions.

http://diatribe.org/medtronics-minimed-670g-hybrid-closed-loop-trial-ending-month https://www.medtronic-diabetes.co.uk/minimed-system/minimed-640g-insulin-pump

Architect, document, implement, functionally test, medical device manufacturing tester software. (C#) to support a number of medical devices and products, currently commercially available.

http://professional.medtronicdiabetes.com/ipro2-professional-cgm https://www.medtronicdiabetes.com/products/enlite-sensor

Extensive experience creating Software Design and Software Requirement documents that conform with Federal regulations in the medical device field.

Extensive experience in Unit testing and Test Driven Development.

Implemented Bluetooth low energy Profiles and Services on both an embedded platform and an iOS device, currently commercially available.

http://www.medtronicdiabetes.com/products/minimed-connect

Part of my responsibilities involved representing the company internationally, and interfacing with medical research facilities that would like to work our devices. I have traveled to spain, israel, and various states in the united states, as an engineering representative during independent clinical trials that used our devices.

Education

B.S. Computer Engineering – California State University Northridge   *2003 → 2008*
arm, c++, c

Society of Hispanic Professional Engineers: part of the planning committee, that organized the regional conference in 2005.

Others

Background – Background

Fluent in Spanish

Readings

Design Patterns: Elements of Reusable Object-Oriented Software – Erich Gamma, Richard Helm, Ralph Johnson, John Vlissides – http://www.amazon.com/Design-Patterns-Elements-Reusable-Object-Oriented/dp/0201633612

Merging vs. Rebasing - Conceptual overview | Atlassian Git Tutorial – Atlassian Git Tutorial – https://www.atlassian.com/git/tutorials/merging-vs-rebasing/conceptual-overview

Compare git rebase with the git merge command and identify all of the potential opportunities to incorporate rebasing into the typical Git workflow.