

# Luis F. Gutiérrez

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## Professional Experience

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6/2017 – **Independent consultant**  
present

Providing full-stack software development expertise to a select group of clients  
Example project: a big data/analytics project in the financial sector. Partnered with a small team developing a custom software solution using serverless architecture, AWS and Python backend, JavaScript/Elm frontend.

1/2016 – **Career break pursuing passion project**  
8/2017

Developed and implemented custom curriculum for gifted children with ASD. Integrated therapeutic support, traditional academics, and differentiated projects following children's interests (e.g. maker projects, programming).

11/2005 – **Philips**  
12/2015

Held multiple roles across three lifecycle phases of healthcare technology

Innovation

Identified new business development opportunities within and outside of Philips for increasing investments to explore capabilities and de-risk early stage technology. *Results: acquisition (M€) of key IP leading to multiple new products and expanded research portfolio; launch of 2 ventures in the Healthcare Incubator for projects ready to transition from research to development.*

Research

- Led team of 7 FTE (PhDs and software developers) and contributed independently across multiple projects in minimally-invasive interventions for cardiovascular and oncology applications. Medical image processing; device tracking and design; system integration. *Results: 3 projects added to product roadmaps; 8 patents as author.*
- Internal communication: conceived and wrote proposals for multiple new projects; made presentations to C-suite leadership. *Results: doubling of our department size over 3 years; 8 technical note publications.*
- External communication: *9 conference presentations, 1 peer-reviewed journal article, 3 trade show presentations.*
- Client relationship management: identification and execution of partnerships with key opinion leaders. *Results: 3 new partnerships with dedicated funding (M€).*

Development

- Program/systems management: Member of a 4 person management team that led the implementation of new agile work methods for a software team, in compliance with FDA regulations: new tooling for requirements management, software configuration management, testing, reporting; and new communication style (daily stand-ups, sprint demos, etc.).
- Product development team management: Project management responsibility for product release: high level project scope, goal, deliverable planning, writing code and performing code reviews; detailed definition of tasks, resource allocation, and timelines; alignment with other functions (marketing, regulatory, sales, service, support); reporting out to management.
- *Results: launched two FDA Class II products.*

## Skills

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MedTech	Algorithm development for <i>electromagnetic tracking</i> , <i>calibration</i> of tracked devices such as ultrasound probes and endoscopes, and <i>registration</i> of multi-modality medical images.
Clinical	Research design for algorithm validation and clinical efficacy studies. Insight generation for design of novel applications that address feasible clinical workflows.
Programming	Ruby on Rails, Python, Javascript, Elm, C/C++/C#, TDD, Git, SVN, CVS, Matlab, Latex, Shell scripts
Systems	Mac OS, *nix, Windows
Spoken languages	Fluent English and Spanish, basic Italian

## Education

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### **Philips INSPIRE Future Leaders Training**

One of 30 High Potential employees per year from the Americas invited to attend in-depth, cross functional training in leadership, coaching, marketing, finance, & strategy; and to participate in a 10-week project reporting to a different business or function, in my case sales & marketing

### **Johns Hopkins University, School of Medicine**, Baltimore, MD

PhD in Biomedical Engineering, November 2005

Advisor: Dr. Elliot R. McVeigh

Thesis: *X-ray Fused with MRI (XFM) for Guidance of Catheter-Based Interventions*

Additional coursework from the **School of Professional Studies in Business and Education**: Financial Accounting; Business, Government and the World Economy

### **Vanderbilt University**, Nashville, TN

Bachelor of Engineering, *magna cum laude*, Honors in Biomedical Engineering

Major GPA: 3.8/4.0, Overall: 3.7/4.0