Sebastián Felipe Landínez García

Curriculum Vitae

"If I have seen further it is by standing on the shoulders of giants" - Sir Isaac Newton

▬▬▬▬ Education

2010–2016 **Bachelor of Engineering in Electronics and Telecommunications**, *University of Cauca*, Popayán, Cauca, *GPA − 4.5/5.0*.

Senior Thesis **Mobile ECG System for the Assessment of the Cardiovascular Risk**.

Supervisor PhD. Diego Mauricio López Gutiérrez

Department of Telematics - University of Cauca

Popayán, Cauca, Colombia

Abstract Problem: Cardiovascular diseases (CVD) are the number one cause of death globally. The World Health Organization estimated that 80% of the deaths caused by CVD take place in low and middle-income countries (LMIC). Objective: This paper describes the development of a mobile Electrocardiogram (ECG) system designed to support the evaluation of cardiovascular risk. Methods: The system was developed using low-cost technology, implemented under the open-source platform SANA and adding an ECG signal to the process of the cardiovascular risk evaluation. Results: Main functionalities of the system include a visualization and analysis of the ECG signal in the Android mobile device, calculation of four cardiovascular risk scales, standard ECG transmission using the European Data Format (EDF), and integration into an Electronic Health Record system. Ten experts recommended 28 different application scenarios for the system, and evaluated its performance (100%) and relevance of the functionalities (89%). Conclusions: The paper demonstrates feasibility to develop a low-cost, open source, mobile ECG System able to support the evaluation of cardiovascular risk and potentially useful for other health promotion and prevention programs and scenarios, especially in LMIC.

Academic Experience

Conferences, Presentations and Posters

August 28–
September 2
2016

Oral presentation of a submitted paper, Mobile ECG System for the Evaluation of Cardiovascular Risk.

HEC 2016 - Health Exploring Complexity: An Interdisciplinary Systems Approach, Medical Informatics Europe.
Munich, Germany

June 2–4
2015

Oral presentation of a submitted paper, Mobile ECG Systems and Cardiovascular Risk: A Systematic Review.

12th International Conference on Wearable Micro and Nano Technologies for Personalized Health
Västerås, Sweden

Schools, Workshops and Seminars

October 26
2015

International Congress in Cibersecurity and Technologies of the Information.

Military Aviation School Marco Fidel Suárez
Cali, Valle del Cauca

February
8–May 8
2015

HST.936 Global Health Informatics to improve Quality of Care.

University of Cauca and the Laboratory for Computational Physiology at the Massachusetts Institute of Technology - MIT
Popayán, Cauca

24–26
October 2013

6th **National Conference of Emergent Technologies in Telecommunications**.

University of Cauca
Popayán, Cauca

7–8 March
2013

Red Móvil: Seminar of Planning, Deployment and Optimization of Cellular Mobile Communication Systems.

University of Cauca
Popayán, Cauca

Description

This thesis explored the idea that money has been the cause of untold anguish and suffering in the world. I found that it has, in fact, not.

Teaching experience

June–
December
2014

Academic Monitor in Differential and Integral Calculus.
University of Cauca
Popayán, Cauca

Work experience

February
2016–Present

Product Engineer at Codescrum.

Codescrum is a colombian enterprise that provides solutions through the development of transversal web applications using as web framework Ruby on Rails to clients mostly in the United Kingdom. Worked in the implementation, maintenance and integration with other services in projects like eChoiceChannel and 2020Casting.

Experience

Vocational

2012–Present   **1st Year Analyst**, LEHMAN BROTHERS, Los Angeles.
Developed spreadsheets for risk analysis on exotic derivatives on a wide array of commodities (ags, oils, precious and base metals), managed blotter and secondary trades on structured notes, liaised with Middle Office, Sales and Structuring for bookkeeping.

Detailed achievements:
- Learned how to make amazing coffee
- Finally determined the reason for PC LOAD LETTER:
  - Paper jam
  - Software issues:
    - Word not sending the correct data to printer
    - Windows trying to print in letter format
  - Coffee spilled inside printer
- Broke the office record for number of kitten pictures in cubicle

2010–2011   **Summer Intern**, LEHMAN BROTHERS, Los Angeles.
Rated "truly distinctive" for Analytical Skills and Teamwork.

Miscellaneous

2008–2009   **Computer Repair Specialist**, *Buy More*, Burbank.
Worked in the Nerd Herd and helped to solve computer problems by asking customers to turn their computers off and on again.

Awards

2011   School of Business Postgraduate Scholarship

2010   Top Achiever Award – Commerce

Computer skills

Basic   JAVA, Adobe Illustrator

Intermediate   PYTHON, HTML, LaTeX, OpenOffice, Linux, Microsoft Windows

Advanced   Computer Hardware and Support

Communication Skills

2010   Oral Presentation at the California Business Conference

2009   Poster at the Annual Business Conference in Oregon

Languages

English   **Mothertongue**

Spanish   **Intermediate**   *Conversationally fluent*

Dutch   **Basic**   *Basic words and phrases only*

Interests

- Piano   - Chess

- Cooking
- Running

- Dancing