SERGIO DANIEL HERNANDEZ CHARPAK

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Education

Universidad de los Andes   Bogotá**, Colombia**

Physics, Bachelor of Science   *Expected graduation, September 2016*

GPA **4.25**/5.00

Computing Engineering, Bachelor of Engineering   *Expected graduation, April 2017*

GPA **4.25**/5.00

Japanese Language and Culture, Minor

Tokyo University of Marine Science and Technology   Tokyo**, Japan**

Visiting Student   *May 2014-June 2014*

Control and Robotics Laboratory

Kyoto Institute of Culture and Language   Kyoto**, Japan**

Intermediate Japanese Student   *October 2013-March 2014*

Lycée Français Louis Pasteur   Bogotá**, Colombia**

Student   *Graduated, July 2009*

Scientific Bachalauréat, Mention Bien

Research Experience

Universidad de los Andes   **Undergraduate Research Assistant**

Department of Computing   Developed Python tools for testing prototypes in the project
Engineering   Astronomical Image processing from large all-sky photometric
Bogotá, Colombia   surveys for the detection and measurements of transients under
August - December 2015   the mentorship of prof. Marcela Hernandez.

Fermi National Laboratory   **IPM Intern – Muon G-2 Experiment**

Neutrino Division   Part of the team for the Test Beam of a Straw Detector Prototype
Batavia, U.S.A.   in charge of the High Voltage and assisted with the analysis of the
June –July – August 2015   data taken under the mentorship of scientist Brendan C Casey.

Tokyo University of Marine   **Visiting Student - Control and Robotics Laboratory**

Science and Technology   Assisted with the integration and control of a helicopter with
Tokyo, Japan   Arduino under the supervision of professors Sho and Ito.
May -June 2014

Teaching Experience

Universidad de los Andes   **Undergraduate Teaching Assistant**

Bogotá, Colombia
2011,2012,2013,2014,2015

Undergraduate Teaching Assistant for sections of Object Oriented Programming 1, Data Structures, Modeling, Simulation and Optimization, and Computational Methods courses.

Additional Work Experience

Mariño Math **Tutor**
Bogotá, Colombia High School Physics, Chemistry, Math and Biology Tutoring in both
Sept 2011-Present French and Spanish.

Skills

Software and programming
-Java, Python, IPython, C, MATLAB, Processing, Arduino, Assembler, UML, Git, PHP.
-Familiar with Linux, Windows and MAC OS.
-Github: https://github.com/sercharpak

Techniques
-Familiar with group work techniques: TSP.
-Basic electronic circuits skills (design and fabrication of prototypes).

Languages
-French (fluent) -English (fluent)
-Spanish (fluent) -Japanese (Upper Intermediate, JLPT level 2)