

FRANCISCO GARCIA

PROFILE

Enthusiast and passionate about science and its applications. Interested in mechanical design, manufacture, quality control and statistical analysis: currently learning and taking a certification on Data Science by the IBM (International Business Machines)

EXPERTISE

Solid Works/Fusion/CREO



Leadership



C Programming/Arduino/Python



Scilab



Ansys



EDUCATION

Mechanical Engineering



The University of British Columbia
Sep 13th – Dec 21st, 2018 –exchange.

Emphasis on mechanical design and manufacture



Massachusetts Institute of Technology
June 11th – July 2nd, 2018, workshop in
micro and nanotechnology



*Monterrey Institute of Technology and
Higher Education*

January 8th, 2017 -present



Technological University of Panama

Jan 4th 2015 – Dec 10th, 2016

LANGUAGES

Spanish: nativespeaker

English: professional proficiency

CONTACT



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AlejandroGarcíaGrajales

EXPERIENCE

MABE TyP | MAY 2nd 2019 – PRESENT

1. Design of a UV system inside the GE Model dryer: dbxr463ed2ww and of a closing mechanism (new strike&latch.) Currently, General Electric accepted proposed closing mechanism by my leader engineer project and myself and will be implemented in 2020. Work here consists of design, prototyping, Six Sigma validation, production, etc. I was involved in the dimensional analysis, performing tests and analyzing the data.

2. Involved in project which aims to improve the energy efficiency of the GE model dryer dbxr463ed2ww by 20%. This project is also a development plan in relationship with General Electric

MONTERREY INSTITUTE OF TECHNOLOGY AND HIGHER EDUCATION | JAN 2017 – PRESENT

Currently working on the admission department of the university. I handle information of more than 100 students, on average

MECHANICAL LABORATORY ASSISTANT | AUG 2016 – DEC 2016 TECHNOLOGICAL UNIVERSITY OF PANAMA

Data collection related to tensile and torsion tests and doing statistical validation of probe designs. Inventory management.

PROJECTS

EAGLE X ROBOTICS (JAN 2018 – JAN 2019)

Design and manufacture of rovers. I was in charge of helping with the design of the robotic arm, as well as with manufacturing operations and tests.

First and only Latinamerican team in 12 years to participate in The University Rovers Challenge, in the USA (2018 and 2019)

MICROFABRICATION AND NANOTECHNOLOGY AT MIT (JUNE – AUG 2018)

Workshop in micro and nanofabrication at the Massachusetts Institute of Technology (only 16 students accepted annually, from all campuses in Mexico.)

CONTINENTAL INNOVATION WORKSHOP (MAY 2018)

My team and I won the Continental Innovation Workshop – Queretaro. Proposal of electronic system to get mechanical data from tires and alert user when failure is near.

PEDAL-POWERED CAR (DEC 2016)

Being part of a Mechanical Engineering team that designed and built a pedal - powered car and donated it to Teleton Panama

ACHIEVEMENTS

INTRODUCTION TO PARTICLE ACCELERATORS

Workshop by the Mexican Community of Particle Accelerators at the National Institute of Nuclear Investigations. Only less than 60 accepted students nationally

HONOR ROLL: one of the best grades in the Mechanical Engineering Department