



Eduardo Sancho Solano

GRADUATE IN MECHATRONICS ENGINEERING



I'm an ambitious team player with wide experience in industrial manufacturing. Technological and organizational challenges that will have a significant impact on people's lives are what drive me and keep me motivated.

I feel more comfortable in a dynamic work environment where problem solving is frequently exercised and interpersonal communication is the key to reaching sustainable solutions.

PERSONAL INFO

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WORK HISTORY

- Project Manager and Engineering Designer** 2019-03 - present
Giro Industrial, San Carlos, Alajuela
Giro Industrial is a family owned company which manufactures machinery for the agro-industry such as mills, conveyors, fryers, etc.
-Coordinated the definition of the **Terms of Reference for New Products**. This process involved the sales team, several clients, manufacturing managers and the board of directors.
-Developed a **primary concept of the end product**, following the Terms of Reference. The concepts served as a guide to the manufacturing team to build the machines and helped to formulate a "shopping list" of the raw materials.
-As the project progressed, sometimes more specific mechanical and electrical schematics were required. Either I made them myself or I asked a coworker to help me out. These were made in **Autodesk Inventor and AutoCAD**.
-Programming of **automation** components such as VFDs (Yaskawa, Siemens), PLCs (Schneider, Fatek, Siemens), HMIs (Autonics, Maple). Programs were written in **Ladder Logic or Function Block Diagram**.
- Fixture Designer (Intern)** 2018-10 - 2018-12
Boston Scientific, Coyol, Alajuela
Boston Scientific has 3000+ employees working at their facilities in Coyol Alajuela, they manufacture medical devices mainly for endoscopy, urology and cardiology.
-Because it was such a big company, I was required to deeply understand and practice their core values; which meant **focusing on quality, organizational culture, and follow strictly regulated procedures**.
-Engineered and tested **two fixture designs** for two separate production units (fixtures are manual tools that workers use for specific tasks). The fixtures aimed to minimize cutting risks for workers, **boost productivity and deliver more consistent batches** of finished product.
- Administrative Assistant and Product Design (Intern)** 2019-07 - 2020-03
Fabrica Mi Pieza, Tilarán, Guanacaste
It was a Tech Start Up.
I did field support, on-site manufacturing, and lead management for some potential clients.
- Maintenance Intern** 2018-04 - 2018-06
Pelón de la Bajura, Liberia, Guanacaste
This company is the biggest rice and beans producer of Costa Rica.
-Gathered **technical and productive data** of processes and machinery in order to later summarize it and then make it available for all technicians.
-Assisted in the **servicing of machines** that failed unexpectedly and in programmed maintenance with outsourced technicians.

■ Mechatronics Intern

2017-10 - 2017-12

Top Tier, Portland, Oregon

This company build palletizing machines.

Assisted the manufacturing process, always supervised and mentored by someone.

-Assembly of control panels.

-Set-up of CNC Lathe.

-Operating a brake press for sheet metal.

-Testing and troubleshooting of assembled machines on-site.

EDUCATION

■ Universidad Invenio, Cañas, Guanacaste, Costa Rica

2017-01 - 2020-12

Licenciatura, Ingeniería Mecatrónica

SKILLS

■ Autodesk Inventor

★★★★★

■ Democratic Leadership

★★★★★

■ Problem Solving

★★★★★

SOFTWARE

■ Microsoft Office

LANGUAGES

■ Spanish

★★★★★

■ German

★★★★★

■ Italian

★★★★★

HOBBY

-Home automation using Arduino.

-Playing and designing simple videogames.

-Travelling and interacting closely with other cultures.

PROJECTS

■ Solar Panel Cleaner

2021-01 - 2021-06

Project Owner

Lightweight/Portable cleaning module equipped with medium hardness circular brushes driven by 12Vdc electric motors that could be operated using a tractor's battery as power source.

REFERENCES

■ Gilbert Rojas

Founder and Director, Giro Industrial