

## **EMILLY CORREA SANTIAGO**

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### **EDUCATION**

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**Mechanical Technician – Federal Institute of Pernambuco - IFPE (2019 - 2020)**

Mechanical Engineering – Federal University of Pernambuco – UFPE (2012 a 2018)

Mechanical Engineering – University of Nevada, Las Vegas – ULNV (2014 a 2015)

### **LANGUAGES**

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Advanced english skills (reading, speaking and writing)

2014.2 - English Intensive Course: “English as Second Language” na University of Las Vegas, Nevada.

### **PROFESSIONAL EXPERIENCE**

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*NI2 – Interdepartmental Nucleus of Informatics – 03/2012 a 06/2012*

Center of Technology and Geosciences Laboratory – CTG/UFPE

Responsible Monitor

- Install programs and format computers;
- Assist engineering students in AutoCad and Microstation.

*Fundation COPPETEC/UFRJ – 03/2013 a 10/2013*

Associated company of the Federal University of Rio de Janeiro

Scholarship Student

- Vehicle monitoring of the *Abreu e Lima* Refinery (*RENEST - PE - Brazil*) using GPS;
- Vehicle simulation using ARENA software;
- Field data collection to update the software.

*MARACATRONICS/UFPE, Combat Robots – 02/2014 a 08/2014*

Group of competition and development of combat robots;

- Manufacture of combat robot, using lathe and milling machine;
- Dimensioning and adjustment of parts for robot assembly;
- Development of the CAD design of the final project and computational simulation.

*PROPESQ/UFPE, Scientific research – 08/2017*

Numerical simulation of pathological breast using three-dimensional geometric reconstruction of thermographic images.

Scholarship Student

- 3D modeling of the breast in order to generate a model as close as possible to the actual geometric shape of the breasts of a given patient using computational tools;
- Study and analysis of CFD tools - Computational Fluid Dynamics;
- Numerical simulation of mammary pathologies using ANSYS software.

*GSM-SINFRA/UFPE Curricular Internship – 05/2018*

Internship in the Management of Mechanical Systems (GSM) in the Infrastructure Superintendence (SINFRA) of UFPE.

- Accompaniment of installation of elevators and inspection of corrective and preventive maintenance of refrigeration systems;
- Issuance of work orders, payments, maintenance and installation processes for air conditioning and lifting systems;
- Preliminary technical study for maintenance contracts for lifting and air conditioning machines.

## **SOFTWARES**

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SolidWorks, Pacote Office, Matlab, Microstation, AutoCad, Ansys (Fluent) and SAP

## **MAJOR COURSEWORK**

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- Technical Fundamentals of Turning Application - *Sandvik Coromant* – 30/05/2017
- Technical Fundamentals of Milling Application - *Sandvik Coromant* – 30/05/2017
- Computer Aided Design – UFPE – 2014.1
- Non-conventional machining process, CNC programming – UFPE - 2017.2