

# JOSE CRUZ CASTELO BELTRAN

Mechatronics and Computer Engineer

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📍 Seoul, S. Korea

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## EDUCATION

M.S. in Computer Engineering - 4.06 / 4.50

**Pusan National University**

📅 Sep. 2020 – Feb. 2023

📍 Busan, S. Korea

- Specialized in Deep Learning architectures for Computer Vision tasks.
- Research projects on image generation and translation with generative models (GAN)

Intensive Korean Language Program

**Chungnam National University**

📅 Sep. 2019 – Aug. 2020

📍 Daejeon, S. Korea

Coursework toward M.S. in Software Engineering

**Universidad de Guadalajara**

📅 Aug. 2018 – Jun. 2019

📍 Guadalajara, Mexico

- Courses: Data Mining, Object Oriented Programming, Software Design, Software Testing, Software Development and Project Management.

B.S. in Mechatronics Engineering - 92.14 / 100

**CETYS Universidad**

📅 Aug. 2011 – Feb. 2016

📍 Tijuana, Mexico

- Awarded a full scholarship for academic performance.
- Exchange student at Sungkyunkwan University (2014 - 2015)

## EXPERIENCE

Systems Engineer

**Samsung Mexicana**

📅 Jul. 2016 – Sep. 2017

📍 Tijuana, Mexico

- Developed a PCB detection software with OpenCV to reduce scrap.
- Development of modules for the production management software.
- Data scrapping from production machine logs to a centralized database.

Engineering Intern

**Westrock (MeadWestVaco)**

📅 Oct. 2015 – Apr. 2016

📍 Tijuana, Mexico

- Creation of engineering drawings and 3D models for injection molding.
- Design of fixtures for part measurement and testing.

Manufacture Intern

**C&D Zodiac Aerospace (Aerodesign de México)**

📅 Feb. 2014 – Jul. 2014

📍 Tijuana, Mexico

- Design of production-line layouts to optimize the workflow.
- Perform time and material studies to determine production capabilities.

## ABOUT ME

*Dedicated professional looking to engage in innovative projects to apply and expand my technical abilities while solving social problems with the help of modern technologies and applied engineering.*

## SKILLS & ABILITIES

Pytorch

Python

Flutter

Dart

Vue

Java

C#

GIT

LaTeX

Docker

NodeJs

SQL

CAD

Problem Solving

Logical Thinking

Collaboration

Decision Making

## LANGUAGES

Spanish

English

Korean



## INTERESTS

A.I.

Generative Models

Mobile Technologies

Blockchain

## EXTRAS

Publications

- **Frequency-Focused GAN Pipeline for Art-like Image Generation.** Korea Computer Congress, Jul. 2022.
- **Assessment of Segmentation Impact on Melanoma Classification Using CNN.** Journal of Computing Science and Engineering. Sep. 2021.

Judges' Favourite Award

**Proximity Hackathon**

📅 Aug. 2016

PLC Programming Course

**Instituto Politécnico Nacional**

📅 Nov. 2015