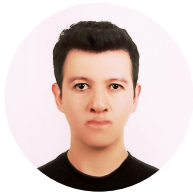


# JOSE CRUZ CASTELO BELTRAN

## Mechatronics and Computer Engineer

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## EDUCATION

M.S. in Computer Engineering - 4.06 / 4.50

### Pusan National University

- Sep. 2020 – Feb. 2023 Busan, S. Korea
- Research in Deep Learning architectures for Computer Vision tasks.
  - Conducted image generation and translation projects with GAN and Diffusion Models.

Korean Language Program

### Chungnam National University

Sep. 2019 – Aug. 2020 Daejeon, S. Korea

Partial M.S. in Software Engineering

### Universidad de Guadalajara

- Aug. 2018 – Jun. 2019 Guadalajara, Mexico
- Courses: Software Design, Software Testing, Software Project Management, Data Mining, Object Oriented Programming.

B.S. in Mechatronics Engineering - 92.14 / 100

### CETYS Universidad

- Aug. 2011 – Feb. 2016 Tijuana, Mexico
- Awarded a full scholarship for academic excellence.
  - Exchange student at Sungkyunkwan University (2014 - 2015)

## EXPERIENCE

Systems Engineer

### Samsung Mexicana

- Jul. 2016 – Sep. 2017 Tijuana, Mexico
- Development of production management software modules.
  - Reduced production scrap with an innovative PCB detection system.
  - Enhanced decision-making process by extracting production data from industrial machinery.

Engineering Intern

### Westrock (MeadWestVaco)

- Oct. 2015 – Apr. 2016 Tijuana, Mexico
- Creation of engineering drawings and 3D models for injection molding.
  - Standardization of fixtures for quality inspection and testing.

Manufacture Intern

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

- Feb. 2014 – Jul. 2014 Tijuana, Mexico
- Improved production-line workflow with an optimized layout.
  - Estimate production capabilities with material and time analysis.

## ABOUT ME

As a dedicated engineer, I thrive on embracing new challenges, leveraging my knowledge, and expanding my technical skill set. I excel in solving complex problems through innovative approaches, harnessing modern technologies and applied engineering principles.

## SKILLS & ABILITIES

Pytorch Python Flutter Dart  
FastAPI Docker SQL GIT C#  
Java Vue NodeJs MongoDB  
Linux LaTeX Agile CAD

Problem Solving Logical Thinking  
Responsibility Time Management  
Collaboration Decision Making

## LANGUAGES

Spanish English Korean

## 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.
- Non-Contact Heart Rate Monitoring from Face Video Utilizing Color Intensity. Journal of Multimedia Information System. Mar. 2021.

### Accomplishments

- Finalist at the "Start-up Idea Contest". Hosted by Seoul Metropolitan Government. Sep. 2022.
- Global Korea Scholarship Awardee. Sponsored by the Korean Government. Aug. 2019.
- Judges' Favorite Award. Proximity Hackathon. Aug. 2016.

## INTERESTS

A.I. Generative Models UI/UX  
Mobile Technologies Blockchain