

Vicente Alberto CORTÉS PUSCHEL

Electrical Engineer/Computer Vision

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☎ +569 4754 5482 **📍** Santiago, Chile

Electrical Engineer graduated from Universidad de Chile with the highest distinction. Subspecialized in both Data Science and Communications/Signal Processing, having applied it in both the Indoor Positioning Systems industry and the food industry for image classification.

I consider myself to be someone with high level of both hard and soft skills, a very quick learner, and a person who can fit in any kind of environment. I've managed high impact projects in Arara, Kwali, and Banco de Chile, both for their Data Science and Telecommunications teams.

COMPETENCES

Programming languages	Python, Java (JEE, JSE), Matlab, C++, Assembler
Advanced Knowledge	Deep Learning, Image Processing, Data Filtering, Big Data, SLAM, AWS (S3, EC2, SageMaker)
Information presentation tools	Suite MS Office, \LaTeX
Others	MySQL, Git, CAD, Eagle, LTSpice

PROFESSIONAL EXPERIENCE

December 2021 March 2021	Data Scientist, KWALI, Santiago, Chile Development/Research of Deep Learning models in the context of computer vision for food classification <ul style="list-style-type: none">➤ Use of AWS (S3, EC2, SageMaker) tools for training Deep Learning models➤ Use of SoTA (Transformers and DenseNet) models for image classification➤ Memory/Time optimization of Deep Learning models for better performance on edge devices➤ Construction of the inference pipeline via acyclic graphs <div>Python AWS SageMaker EC2 S3 Git</div>
December 2020 January 2019	Data Scientist, ARARA, Santiago, Chile Development of a Pedestrian Dead Reckoning model for sensor fusion with a WiFi based model for Indoor Localization <ul style="list-style-type: none">➤ Python development of the Deep Learning/Quaternion based model➤ Development of an Android application for recording Wi-Fi fingerprints➤ Sales management of the aforementioned product in retail <div>Python Java EKF Android Git Assembler Native</div>
March 2018 January 2018	Internship consultant in the Telecommunications area, BANCO DE CHILE, Santiago, Chile <ul style="list-style-type: none">➤ Use of Python for automating Cisco switches' configuration➤ Quick Wins for OSI layers 2 and 3 in the bank➤ Skype for Business implementation for bank employees <div>Cisco Python Telnet</div>

LANGUAGES

- Spanish: Native language
- English: Full professional proficiency

CORE SKILLS

- Great soft skills
- Autonomy for making decisions
- Able to create a good working environment
- Extremely quick learner

EDUCATION

- 2013-2020 Electrical Engineering, Universidad de Chile. Graduated with the highest honours. Facultad de Ciencias Físicas y Matemáticas
- 2008-2011 Instituto Chileno Británico de cultura. TOEFL ITP Certificate.
- 2007-2012 Instituto Nacional General José Miguel Carrera

HIGH IMPACT PROJECTS

IPIN 2019 COMPETITION (Indoor Positioning and Indoor Navigation)

2019

Development of a Pedestrian Dead Reckoning based system for the participation of the IPIN 2019 competition, obtaining 4th place out of 18 in our category.

Python Java Android

FREDI (FORESTANDO Y RECREANDO CON DIVERSIÓN E INNOVACIÓN)

2018

Creation of a support system for the rehabilitation of patients of the elderly care home Fundación Nuestra Esperanza.

Arduino C# Eagle

AQUATIC RF MOBILE DEVICE

2017

Research and development of a RF aquatic vessel. Used for sensing heavy metals in the lakes of the south of Chile. The vessel was later used by the División General de Aguas (DGA)

Arduino C# Eagle

ADAPTIVE CONTROL FOR MOTORS

2017

Research and design of a fractional derivative-based control system applied in DC motors for Universidad de Chile.

Matlab

EXTRACURRICULAR ACTIVITIES

- 2019 Assistant in the Robotics Laboratory of the University of Chile for the development and improvement of natural language processing systems for the Pepper robot.
- 2016-2019 Assistant at Universidad de Chile, teaching classes and reviewing controls for specialty courses.
- 2016 Assistant at the Voice Processing Laboratory of the Universidad de Chile, in charge of programming NAO robots. In charge of Python programming for flotation process studies in mining industries.
- 2016 Member of the IEEE student branch of the Universidad of Chile.

REFERENCES

Tomás Lungenstrass Poulsen

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