



ISABELLA MI HYUN KIM

AUTOMATIC CONTROL AND ELECTRONICS ENGINEER

CONTACT

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PROFILE

I am 25 years old. I hold an master's degree in Automatic Control and Electronics Engineering with specialization in Embedded Systems and Innovative Smart Systems. And currently, I'm working with Research and development.

SKILLS

TECHNICAL

Python, Java, R
C, C++, C#
Assembly, VHDL, HTML
Matlab/Simulink
Eclipse, Xilinx, PSpice, CodeWarrior
Microsoft Visual Studio
Arduino, RaspberryPi
Latex, Pack Office
Tensorflow, Keras, Scikit, Pytorch

LANGUAGES

Portuguese: native language
English: advanced, TOEIC 970
French: advanced, B2 certificate TCF

INTERESTS

- Machine Learning and Data Science
- Traveling, exploring different cultures
- Swimming and outdoor activities
- Educational politics
- Art and psychology

EDUCATION

MsC in Master in Automatic Control and Electronics Engineering

National Institute of Applied Sciences of Toulouse - INSA Toulouse
2018-2020

- Specialization in Embedded Systems and Innovative Smart Systems (IoT, AI, Machine Learning, Big Data).

Bachelor degree in Electrical Engineering

State University of Campinas (UNICAMP), Brazil
2015-2021

- Double degree engineering program with UNICAMP/INSA Toulouse.

EXPERIENCE

INESC-ID: IntelligentCare project, Lisboa (Portugal)

oct.2021 - now, research and development engineer

- Developing machine and deep learning solutions to predict clinical outcomes of patients.
- Experience with Keras, Pytorch, Tensorflow and Natural Language Processing.
- Published paper on NLP (InForum 200): Semantic embedding of time-series Electronic Health Records data

NielsenIQ, São Paulo (Brazil)

mar. 2021 - oct. 2021, data scientist jr.

- Development of a Support Vector Machine model to classify the company's products using text description.
- Webscraping of data with Python.
- Elaboration of visualization dashboards for data analysis (in Microsoft PowerBi, Google Data Studio).
- Agile methodology.

Total, Pau (France)

sept. 2019 - sept. 2020, apprenticeship internship

- Inversion algorithms, in Python, for the reconstruction of 3D seismic imagery with the Compressive Sensing technique.
- MPI parallel distributed programming for the optimization and treatment of large datasets.
- Experience with High Performance Computing.

Autonomous vision for image analysis and decision transmission, Wiifor Toulouse

sept. 2019 - feb. 2020

- Development an IoT device, capable of capturing images of digital digits, processing them directly on board, and sending the decrypted data over an IoT network.
- CNN (developed with TensorFlow) capable of recognizing digital digits. With implementation in the microcontroller, Gap8, from Greenwaves Technologies.

AVL Software and Functions Gmbh, Regensburg (Germany)

jun. 2019 - aug. 2019, internship

- Programming the rules that verify the safety standards for embedded automotive projects in Python and Assembly.
- Modifications on the graphical interface of the verification software in C# and HTML.