GABRIEL
RUDLOFF BARISON

CONTACT INFO

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ABOUT ME

Data scientist with a strong foundation in electronic engineering and focus on machine learning research. Bachelor's and Master's degrees in Electronic Engineering. Master's focused on machine learning and advanced signal processing, with research in applying deep learning to fiber optic sensors. Solid understanding of deep learning, classical machine learning, and computer vision techniques. Curiosity and thirst for knowledge are my main drive. Analytical mindset, attention to detail, and obsession with solving complex problems.

EXPERIENCE

SOFTWARE DEVELOPER
Jan. 2020 - Mar. 2020

Inria | Lille, France

- Development of open source machine learning python package

DEVELOPMENT ENGINEER
Jan. 2019 - Mar. 2019

Kauel | Santiago, Chile

- Web development, 3D reconstruction from images, AI research & development and the development of an IoT project.

EDUCATION

B.S. IN ELECTRONIC ENGINEERING
2014-2020

Universidad Técnica Federico Santa María | Valparaiso, Chile
(Mention in computers, submention in telecomunications)

M.S. IN ELECTRONIC ENGINEERING
2020-2023

Universidad Técnica Federico Santa María | Valparaiso, Chile
(Specialty in Telecommunications and Signal Processing)

- Application of artificial intelligence in the context of fiber optic sensors.
- Thesis topic: "Peak detection of spectrally-overlapped fibre Bragg gratings using an autoencoder convolutional neural network"

ACHIEVEMENTS

Awards
- Academic Merit (2014-2017)
- 2nd place in FEUTFSM Environmental Ideas 2015

PUBLICATIONS

Articles

Gabriel Rudloff and Marcelo A. Soto (2023). "Peak detection of spectrally-overlapped fibre Bragg gratings using an autoencoder convolutional neural network". In: *European Workshop on Optical Fibre Sensors (EWOFS 2023)*. DOI: 10.1117/12.2679924.

SKILLS

● ● ● Python, C++, LaTeX

● ● ○ Matlab, HTML

● ○ ○ Verilog, Altium Designer, Assembly, Vrep, Java

Languages
- Spanish (Native)
- English (Full professional proficiency)
- French (Basic)

Hobbies
- Guitar & piano
- Bouldering
- Biking