

Jérémy Hraman

PROGRAMMING, SIGNAL PROCESSING AND ELECTRONICS

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PROFESSIONAL EXPERIENCE

ELECTRONICS ENGINEER AND PROJECT MANAGER

November 2022 – Today

Schindler Elevator – Shanghai, China

Electronics design on Drive components and Drive integration into elevator systems for the Research & Development Department. **Project manager** on one of the top-claimed product.

SIGNAL PROCESSING, IT AND ELECTRONICS ENGINEER IN GEOPHYSICS

July 2020 – July 2022

CEA & Institute of Geophysics – Ulaanbaatar, Mongolia

Python teacher with creation of interactive educational content, writing of a work and textbook. **IT & electronics projects** in seismology, infrasound and radionuclide with the CTBTO. **Technical work** on field stations. Development of a **seismic monitoring software** in **Python with Grafana**. **IT Manager** of the french computer network.

SCIENTIFIC LOGISTICIAN AND ELECTRONICS ENGINEER

September 2018 – February 2020

French Polar Institute – Amsterdam Island, TAAF

14-months **overwintering** on Amsterdam Island. **Works on electronics, IT and logistic** for the research programs of DORIS, magnetic field and earth seismology, atmosphere and aerosol. Responsible for the science data network.

MASTER'S THESIS IN SIGNAL PROCESSING AND AI

April 2018 – September 2018

KIT - Karlsruhe, Germany

6-months thesis on the separation of band music with **deep learning** in **Python** using Tensorflow, Keras, CUDA and DSP. Algorithms based on **convolutional** and **recurrent neural networks**, supervised and unsupervised.

SKILLS

Languages: Python – C/C++ – Java – HTML5
CSS3 – PHP – JavaScript – LaTeX
Database: MySQL – Oracle – InfluxDB
Framework: Django – Tensorflow – Dash

Environment: Linux – MacOS – Windows
Software: Eclipse – GitLab – PyCharm
Visual Studio – MS Office
Design: Illustrator – InDesign – Blender

EDUCATION & DIPLOMAS

Master's degree in Electrical Engineering and Information Technology

Karlsruhe Institute of Technology - Karlsruhe, Germany 2017-2018

Master's degree in Signal processing, Programming and Electronics

Phelma (Grenoble INP) - Grenoble, France 2015-2018

Two-year intensive program preparing for the exams to the top-level engineering universities

Lycee Fabert - Metz, France 2013-2015

LANGUAGES

French: Native
English: BULATS, C1 Level
German: DSH-2
Chinese: Beginner

VOLUNTEER EXPERIENCE

- Creation and of dynamic websites for charity organizations.
- Private teacher in maths and physics for middle and high school students with difficulties and Youth Leader in summer camps.
- Music director and musical arranger for orchestra and brass band.

PUBLICATIONS

- **The Python Book** – The learning book for beginners of the Institute of Astronomy and Geophysics of Ulaanbaatar. Open source project published in April 2022.
- **Separation of Band Music with Neural Networks** – Master thesis at the Institute of Industrial Information Technology. Published in October 2018.