

Victor FERAT

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Work Experiences

- Feb 2019 – Today **Campus Biotech Geneva**
- **Provide Python tools for EEG offline analysis** such as preprocessing, signal quality check and independent components analysis through GUI interfaces.
 - **Developing pipeline tools for EEG data analysis**
- Feb – August 2018 **Zeta Technologies**
- **Developed algorithms for Real-time and Offline EEG data analysis:**
 - Designed real-time signal processing algorithms (Python) for neurofeedback therapy including real time filtering, real time Artefact detection and correction, feedback processing. (Multi - threading)
 - Designed offline algorithm for EEG data cleaning
 - Full Documentation was written according to PEP 8 coding convention, dissemination across the company was made using Git and basic unit test tools were developed for critical functions.
 - **Scientific data analysis of tinnitus related EEG:**
 - Developed tools (Python) for statistical analysis of EEG Data.
 - In-depth study of the literature for the following 3 topics :
 - EEG Data Analysis
 - Tinnitus
 - Neurofeedback
- Jun – Sept 2017 **Bioserenity**
- **Designed a test bench for EEG headset**
 - **Improved ERP integration (SAP)**
 - **Helped Managing stock and production:**
 - Coded algorithm to estimate order volumes based on production
 - Drafted a Kanban process to improve productivity
 - Developed an automatic label printing software
- 2016 – 2017 **ESA REXUS Program (School Project)**
- Lead a small team during the conception of a nanosatellite. This project enrolled REXUS/BEXUS competition launched by ESA
- April 2017 **MEFRO Wheel France (Operator)**
- Regulated the production flow in a wheel manufacturing company.

Education

- 2015 – Today **Arts et Métiers Paris Tech**
- Master's degree in Mechanical and Industrial engineering
- 2017 - 2018 **Bioengineering and Innovation in Neurosciences (Paristech)**
- Master's degree in Neurosciences and engineering
- 2012 - 2015 **Lycée Roosevelt Reims**
- Preparatory school - Classe préparatoire aux grandes écoles
- 2009 - 2012 **Lycée Edouard Herriot**
- High School Diploma - Baccalauréat

Languages

French:

Mother tongue

English:

Fluent (TOEIC 930)

Spanish:

Conversational level

Software

Master

• Python

- Mne
- Numpy
- Matplotlib/ seaborn
- Pandas
- PyQt / Tkinter
- Flask / Django
- PEP8
- unittest

• Git

• Arduino

Intermediate

• Docker

• Matlab

• Blender

• CSS

• HTML

Basic

• SQL

• Unity

• Javascript