

Name Surname

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ETH Environmental Engineering
Specilized in geomatics
Passionated programmer



\Education

09/2019 - 09/2021

Master of Science MSc, EPFL, Environmental Engineering
Monitoring and Modeling of the Environment

09/2019 - 09/2021

Bachelor of science BSc, EPFL, Environmental Engineering
Erasmus, TUM München, third year (10/2017 - 08/2018)

09/2009 - 09/2009

Scientific high school, Lilu2 Savosa (Ticino)

\Experience

10/2020 - 12/2021

Internship at the Federal Office of Topography swisstopo (70%)

Conception and developpement of a benchsystem for the study of GNSS positioning (RTK and PPP-RTK) for autonomous veichle navigation purpose. My work has enabeled swisstopo to acquire new knowledges on this topic and to establish contacts with other Swiss players in the field of autonomous vehicles

\Technical Skills

GNSS Positioning

Signal acquisition and tracking, orbit calculation, carrier-phase cycle ambiguities determination, errors models, INS/GNSS integration and reliability, Kalmant filters.

GNSS Instruments, Protocols and Standardt

I worked with u-blox and Trimble receivers, NMEA and UBX messages, NTRIP and RTCM protocols (I coded a NTRIP-Client for the stream of swipos correction to an u-blox ZED-F9P receiver).

Programming Langugges, Frameworks and Tools

Matlab, Python, basic knowledges in C/C++, HTML/CSS and javascript, Linux, Windows, QGIS/ArcGis.

\Project

Master's project in-company at swisstopo

I developed an automatic system for the collection of GNSS data from three receivers on board of a moving tram through a Raspberry Pi. The analysis of the streamed data has allowed to study the swipos (RTK) et SAPA Premium (PPP-RTK) GNSS correction system and the Trimble NetR9 and u-blox ZED-F9P receivers.

\Award

swisstopoEDU (1000.-)

Award that recognize Master thesis with practical application in the area of swisstopo activities.

\Languages

Italian: **Mother tongue**
French: **Mother tongue**
English: **B2 Level** Stay of 6 months between Canada and USA (2014).
German: **B1+ Level** 12 months Erasmus in München (2017-2018).

\Personal Data

Age: **27 years**
Nationality: **Swiss, French and Italian**