Gabriele Benedetti

Student

Italy

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gabri.xyz

gbene

LANGUAGES

Italian
Native
●●●●●

English
Fluent
●●●●○

TECHNOLOGIES

GIS softwares
●●●●○
QGIS, ArcGIS, SAGAGIS

Agisoft Metashape
●●●○○

3D geological modelling
●●●○○
SKUA GOCAD, MOVE, PETREL

CloudCompare
●●○○○

CAD softwares
●●●○○
KiCAD, FreeCAD

PROGRAMMING LANGUAGES

Python
●●●●○

MATLAB
●●●○○

JuliaLang
●●○○○

INTERESTS AND HOBBIES

Photography

Woodworking

Hiking

Music

3D modelling

Geology student with a passion for science, technology, woodworking, nature and photography. I was always fascinated by the complexity of our Earth and during my academic course I found (and still find) endless possibilities of applying modern technology and coding to many geology concepts.

EDUCATION

University of Milano Bicocca (2020 - Present)
MSc Geology and Geodynamics

- Master students will acquire the capacity to analyse and understand both endogenous and exogenous geological processes at the regional scale
- **Thesis**: *Software development of 3D modelling geological for Digital Outcrop Models*

https://github.com/andrea-bistacchi/PZero

University of Milano Biccocca (2017 - 2020)
BSc Geological Sciences and Geo-technologies 107/110

- Undergraduate students will acquire a solid cultural and methodological background in all fundamental disciplines of the Earth Sciences necessary to the handling of a range of scientific and applied geological problems.
- **Thesis**: *Photogrammetric techniques applied to invertebrate paleontology.*

https://gabri.xyz/project/fossils/

PROJECTS

Electronic Compass (2019 - Present)
Open-source electronic geological compass.

Low-cost, open-source electronic geological compass that reduces the time needed to take geological measurements.

https://gabri.xyz/project/ec/

C++, CAD

Automatic mesh difference (2020 - 2020)
Referenced slopes orientation and mesh difference automation

Prepare different 3D models, in particular artificial slopes, and calculate the difference between two reconstructions directly in Agisoft Metashape without using external programs.

https://gabri.xyz/project/auto-slope/

Python, Agisoft Metashape

RocPy (2021 - Present)
Roclab inspired python program

Port RocLab's capabilities using python to increase the overall accessibility of the program and modernize it's interface

https://gabri.xyz/project/rocpy/

Geothecnics, Python