



## PROFESSIONAL JOURNEY

- 06.2014 - ce jour ● **CIVIL ENGINEER & HYDROLOGIST** (Independent activity)  
H&S Engineers (hagoscon.com), Geneva, Switzerland
- 01.2014 - 03.2014 ● **HYDROLOGIST** (Temporary mission)  
The department of Environment Transport and Agriculture (DETA),  
Republic of Canton Geneva, Switzerland.
- 01.2008 - 04.2010 ● **SCIENTIFIC COLLABORATOR** (in Geomatics)  
Faculty of sciences, university of Fribourg, Switzerland
- 06.2005 - 01.2007 ● **SCIENTIFIC COLLABORATOR**  
Research: Rainwater Harvesting Technology for Small Households,  
Central University of Technology, Bloemfontein, South Africa
- 12.2004 - 06.2005 ● **ASSISTANT RESEARCHER**  
Research: Development and Evaluation of Continuous Simulation  
Modeling System for Design Flood Estimation.  
Faculty of Engineering, University of Kwazulu-Natal, Pietermaritzburg  
(Durban), South Africa
- 05.2000 - 02.2002 ● **CONSTRUCTION ENGINEER**  
(Construction of Hospital buildings)  
Eritrean defense force, Assab, Eritrea
- 01.1997 - 05.2000 ● **CONSTRUCTION AND DESIGN ENGINEER**  
(Construction of dams and irrigation infrastructure)  
Ministry of Agriculture, Asmara, Eritrea
- 02.1996 - 12.1996 ● **CONSTRUCTION AND DESIGN ENGINEER**  
(Construction of dams and irrigation infrastructures)  
Commission for the Rehabilitation of Sustainable Agriculture and  
Environment in Tigray Region (SAERT) Mekelle, Ethiopia



## EDUCATION

- 02. 2021- 06.2021 ● **CAS: GEOGRAPHICAL INFORMATION IN URBANISM**  
(Post Graduate Certificate), QGIS, Spatial Planning, UNIGE & EPFL,  
Geneva & Lausanne, Switzerland
- 2018 - 2019 ● **AUTODESK CERTIFICATE**  
Professional training in advanced 2D AutoCAD, Revit Architecture &  
advanced 3D Structure at CAD-School Geneva, Switzerland
- 2013 - 2015 ● **FRENCH CERTIFICATE A2-C1**  
IFAGE and University of Geneva, Geneva, Switzerland
- 2011 - 2012 ● **LAND USE PLANNING| URBAN PLANNING**  
Master in land use planning (MIT) HES-SO, Lausanne, Switzerland
- 2010 - 2011 ● **CERTIFICAT DE FRANÇAIS A1-B2**  
Université de Fribourg, Fribourg, Suisse
- 2008 - 2010 ● **DOCTORAL STUDENT IN GEOMATICS**  
Faculty of Science, University of Fribourg, Switzerland
- 2002 - 2005 ● **MASTER OF SCIENCE IN HYDROLOGICAL ENGINEERING (MScENG)**  
University of Kwazulu-Natal, Pietermaritzburg and Durban, South  
Africa
- 1991 - 1996 ● **BACHELOR OF SCIENCE IN IRRIGATION ENGINEERING| CIVIL  
ENGINEERING (BScENG)**  
Arba-Minch University, Formerly Arba-Minch Institute of Water  
Technology, Arba-minch, Ethiopia



## PUBLICATIONS

Tewolde MH and JC Smithers (2006) Flood routing in ungauged catchments using Muskingum methods. Journal of Water South Africa. [Journal](#). • *Other Publications are available at: <https://cv.hagoscon.com/publications/>*



Mesfin TEWOLDE

Civil Engineer & Hydrologist

[EUR ING, MPQF, SIA]



## COMPETENCES

- Control the realization of a project, control their execution in relation to the plans, carry out the readings on-site (Buildings, Irrigation Infrastructure, Dams, and other civil engineering Projects)
- Study watersheds and do the hydrological analysis, Discharge (flow) calculations, flood risks, hydrological studies of a watercourse, and design of urban water management systems, and
- Carry out field surveys and integrate the data into GIS, establish plans or maps, and collaborate in the establishment of land use plans.



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Portfolio:  
<https://cv.hagoscon.com/pf>



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## COMPUTER SCIENCE

ArcGIS, GISpro, WebGIS, QGIS, ArcSWAT, QSWAT3, GRASS GIS, CAO, Revit, Python, SPSS et R Stat, IDRISI, PCI-Géomatica, Civil Storm, Pond pack et Flow master, HEC-RAS et HEC-HMS

Word, Excel, PowerPoint, WordPress



## LANGUAGE

- English Fluent (work and study language)
- French Professional Competence (B2-C1)
- Others Amharic & Tigrigna (Languages of Ethiopia & Eritrea)