



Thomas A. Denoréaz
Passionate Engineer

Profile

🏠 Swiss

📅 02.08.1988

Soft Skills

- Management
- Leadership
- Pedagogy

Technical Skills

- Methodologies
IDesign, DDD, Agile, Clean Code, TDD
- Data Science
TensorFlow, Keras, Scikit-learn, RStudio
- Robotics
Control, Planning, Perception, CoppeliaSim, ROS
- Embedded
FPGA, Arduino, Yocto, RaspberryPi, PTXDist
- DevOps
Gitlab, Atlassian, Jenkins, Docker, Artifactory
- Frontend
Angular, React, Redux, jQuery, Bootstrap
- Backend
Play, ASP.Net Core, Node, Flask, Spring, OpenAPI
- Languages
Python, TypeScript, R, C#, Java, C, C++, Scala, Matlab
- Miscellaneous
SQL, MongoDB, iOS, Android



Personality and Goals

P

Value- and Quality-driven

I consider the purpose of a project as its essence from which everything derives. The quality leads towards it by empowering highly resilient, extensible and maintainable software.

G

Research in Robotics & Space Technology

I pursue a career to push the limits and reduce the gap between research and the industry.



Work Experiences

1

Supercomputing Systems AG MAY 2017 – JAN 2020

Software CTO: Driving Technical Changes, the tasks of the CTO are to conduct Tech Scouting on the current trends, elaborate strategies how to integrate them into projects and the IT infrastructure, build and transfer knowledge by organizing tech talk, workshops and courses. And finally, to manage the student projects.

Project Manager, Software Engineer & Data Scientist: Part of the Life Science Department, we develop and implement innovative hardware and software solutions thanks to multidisciplinary expertise in life science, physics and engineering. My focus being on doing Software Design and applying Algorithm, Machine Learning and Computer Vision for various embedded projects and feasibility studies.

Master Thesis: Vision-as-a-Service is the architecture and implementation of an actor-based framework that closes the gap between the vast majority of vision libraries and the state-of-the-art software engineering principles. An object tracking and a bin picking methods have been researched and developed as proof-of-concept.

2

Mindband GmbH JAN 2016 – APR 2017

Software Engineer: CTO of WeGrow, a learning platform, where the advantages of classic Learning Management Systems (LMS) and social media come together.

3

ETH Juniors SEP 2015 – JAN 2016

Software Engineer: Smartshelf, from Midor, is the prototype of a WebApp applying Computer Vision algorithms to recognize and extract the products directly from pictures of shelves in supermarket.

4

EPFL SEP 2012 - JAN 2016

Software Engineer at LAP: Design of a WebApp to manage the users and their tasks using FPRESSO, an FPGA modelling tool that generates FPGA architectures based on submitted description files.

Software Engineer at LIPID: Design of SpeKtro, an interactive dashboard for exploring non-visual spectrum lighting for human health. The main goal is to help the user to develop a conceptual understanding of the various ways of evaluating spectral effectiveness of ocular light exposure using the RSE factor and gain sufficient knowledge to support its usage.

Software Engineer at LAP: Design of the automated grading system for the Computer Architecture laboratories, built on top of Jenkins, it interconnects several grading tools such as VHDL testbenches with ModelSim and Assembly simulations.

5

UsefulWeb AUG 2011 - SEP 2012

Software Engineer: Creation of tailored solutions for server, desktop, mobile and web apps consisting of the design, the development and the release. With a main focus on Java and iOS development.



<http://thmx.ch>
<https://github.com/ThmX>



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Languages

- French
- English
- German



Hobbies

- Learning
Meetup, HackZurich, Startup Weekend, Coursera, EDX, Kaggle
- Reading
Books, Articles, Newspaper, Blinkist, ...
- Sports
Baseball, Ski, Swimming, Running, Climbing, Hike
- Robotics
DIY, Zeptox
- Algorithmic
Google CodeJam, HC2
- Music
Guitar, Drum



Favorite Books

- Extreme Ownership
Jocko Willink and Leif Babin
- The Dichotomy of Leadership
Jocko Willink and Leif Babin
- The Lean Startup
Eric Ries
- Getting Things Done
David Allen
- The Software Craftsman
Sandro Mancuso
- Site Reliability Engineering
Beyer, Jones, Petoff & Murphy
- The Phoenix Project
Gene Kim
- Brief Answers to the Big Questions
Stephen Hawking
- 21 Lessons for the 21st Century
Yuval Noah Harari



Continuing Education

1

Modern Robotics: Mechanics, Planning, and Control Specialization JAN 2020
Northwestern University, Coursera: Specialization composed of 6 courses to study the kinematics, dynamics, motion planning, and control of mobile robots and robot arms with hands-on training exercises using CoppeliaSim.

2

Crafting Code & Crafted Design DEC 2019
Codurance, London: How to design software that is responsive to changing requirements and new functionality, avoiding some of the pitfalls that lead to legacy code by writing clean, testable and maintainable code.

3

The Architect's Master Class APR 2019
IDesign, USA: The class has three parts, on process, technology & SOA, and the IDesign method for analysis and design. The class shows the architect how to take an active leadership role on all three aspects.

4

CQRS, Event Sourcing and DDD NOV 2018
Skill Matters, London: How to effectively apply DDD (Domain Driven Design) within an organization and how to design architectures and build systems using CQRS (Command Query Responsibility Segregation), Domain Events and Event Sourcing.



Education

1

MASTER OF SCIENCE 2015 - 2018
ETHZ, Zürich: Computational Science & Engineering - Robotics

2

BACHELOR OF SCIENCE 2010 - 2014
EPFL, Lausanne: Computer Science

3

PREPARATORY YEAR 2008 - 2010
EPFL, Lausanne: CMS (Special Mathematics Course)

4

MATURITY & FEDERAL CERTIFICATE 2004 - 2008
CFPT, Geneva: Informatics



Military

1

OFFICER JUL 2014 - APR 2015
Command Support: Officer school & Platoon leader

2

SUB-OFFICER MAR 2014 - JUL 2014
Command Support: Squad leader

3

PRIVATE JUL 2009 - OCT 2009
Command Support: Recruit school & Sub-officer school



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