Dat-Chanh **Nguyen**

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Education

The Lucerne University of Applied Sciences and Arts	*Luzern, Switzerland*
B.Sc. in Mechanical Engineering (cont.)	*2016 - 2018 (expected)*

- Main focus: Energy, Flows and Processes
- Project: Develop an autonomous robot, transporting cargo

ETH Zürich(Swiss Federal Institute of Technology in Zurich)	*Zurich, Switzerland*
B.Sc. in Mechanical Engineering	

- Teaching Assistant: Introduction to Fortran Programming
- Programming Assistant: Data analysis with Python and PostgreSQL

KSR (Kantonsschule Reussbühl)	*Luzern, Switzerland*
Highschool	

- Took part in Swiss Physics Olympiad 2009

Skills

Engineering Tools	**CAD**: (UNI NX, Solidworks, Autodesk Inventor); MatLAB, Mathematica, **CFD**: OpenFOAM **SPS**: TwinCAT3, Selectron CAP1131 **FEM**: Ansys (statics)
Manufacturing Tools	**3D Print/CNC**: Skeinforge, G-Code;
Programming	**Languages**: Python, C/C++, Fortran, Ruby, LaTeX, **Database**: MySQL/PostgreSQL, **Version Control**: Git
Languages	Vietnamese (mother tounge), German (fluent), English (fluent), Italian (B1)

Experience

Hartmetall Estech AG	*Hitzkirch, Switzerland*
Engineering Internship	*Jul. 2017 - Sep. 2017*

- Assistance in production hall

SPOD - VSETH	*Switzerland*
SysAdmin - Operating Manager	*Dec. 2013 - 2016*

- Debugging a legacy Ruby on Rails application and developing a new replacement
- ICT-support for Windows, Mac and Linux systems

Reiden Technik AG	*Reiden, Switzerland*
Engineering Internship	*Jan. 2013 - Apr. 2013*

- Assemble the combined milling and lathing CNC machines: RX-Serie (RX-10, RX14, and RX-18)

Extracurricular Activity

SCI Switzerland (Service Civil International)	*Switzerland*
Member	*2010 - 2014*

- Help distributing used clothes and food for homeless people around St. Pauli, Hamburg at Alimaus St.Ansgar e.V.

Scientifica, ETH Zurich and University of Zurich	*Zurich, Switzerland*
Teaching Assisstant	*2015*

- Supervise 4 groups of 10 to 15 children, aged from 10 to 14, for the workshop "Introduction to Robotics, with Thymio II".

TheAlternative.ch, [project 21] *Zurich, Switzerland*
Assisstant *2014 - 2015*
- Helper and Troubleshooter at various Linux Installation Day events.

(Personal) Projects

Develop a doctor office management application (ongoing)
- Collaboration with Dr. med. Khanh Tran (Dagmersellen)
- Retrieve patient and his/her insurance info from HIN(*Health Info Net AG*)
- Maintain an up-to-date medicine list (from Federal Office of Public Health Switzerland, BaG)
- Generate bills and send them to insurance companies (using MediData.ch service)

Build a weather station (complete)
- Coming in 2 versions: Handheld measure device and stationary measure station
- Measuring temperature, humidity (using DHT22) and pressure (using BMP085)
- Stationary station: 2 Arduinos connect with each other over 2.4 Ghz frequency using XBee 1mW Wire Antenna - Series 1

Build a hexacopter (complete)
- Payload: $\sim 700g$
- Controller: Paris SIRIUS with 3 axis gyroscope and GPS receiver

Design and build a tabletop CNC-Router (complete)
- 2.5D-machining/milling
- Material: polystyrene, wood, MDF, Plexi glas, Plastic PVC, etc.

Writing

A Guide for beginners to Arduino and wireless technology (XBee) *Personal Blog*
Founder & Writer *2010 - 2013*
- Various interessting code snippets and Do-It-Yourself tutorials (Weather tracking system, Hexacopter, tabletop CNC router)

Program Committees

2014, 2015	**Resprenstative**, Activity Fair	*Switzerland*
2015	**Staff**, Scientifica Event	*Switzerland*