

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

Manufacturing Tools

Programming

Languages: Python, C/C++, Fortran, Ruby, LaTeX, **Database:** MySQL/PostgreSQL, **Version Control:** Git **Languages**

CAD: ()
CFD: C
SPS: T
FEM: A
3D Pri
R/Pyth
Vietna

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 ASSISTANT

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

ASSISANT

2014 - 2015

- Helper and Troublers shooter 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: ~ 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.

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Writing

A Guide for beginners to Arduino and wireless technology (XBee)

Personal Blog

FOUNDER & WRITER

2010 - 2013

- Various interesting 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