

Dat-Chanh Nguyen

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Education

The Lucerne University of Applied Sciences and Arts

B.Sc. IN MECHANICAL ENGINEERING (CONT.)

- Main focus: Energy, Flows and Processes

Luzern, Switzerland

Sep. 2016 - 2018 (expected)

ETH Zürich (Swiss Federal Institute of Technology in Zurich)

B.Sc. IN MECHANICAL ENGINEERING

- Teaching Assistant: Introduction to Fortran Programming - MSc. ETH. Mario Kovacs
- Programming Assistant: Analysis of "Microcensus Mobility an Transport" and Calculation of Disaggregated Swiss Mobility Demand Using Clustering and Sampling Techniques - MSc. ETH. Emir Cabukoglu, 2016

Zurich, Switzerland

Sep. 2013 - 2016

KSR (Kantonsschule Reussbühl)

HIGHSCHOOL

- Took part in Swiss Physics Olympiad 2009, placed 34th.

Luzern, Switzerland

Sep. 2009 - 2013

Skills

Engineering Tools

CAD: (UNI NX, Solidworks), MatLAB, Mathematica, CFD: OpenFOAM, Version Control: Git

Manufacturing Tools

3D Print: Skeinforge, Repetier Host, G-Code; ANSYS: Statics analysis

Programming

R/Python, C/C++, Fortran, Ruby, PHP, LaTeX

Web

Ruby on Rails, SQL (MySQL/PostgreSQL)

Languages

Vietnamese (mother tongue), German (fluent), English (fluent), Italian (B1)

Experience

SPOD - VSETH

SYSADMIN - OPERATING MANAGER

- Running and maintaing various small-sized servers (Tower and 2U-Rack)
- Debugging a legacy Ruby on Rails application and developing a new replacement
- ICT-support for Windows, Mac and Linux systems
- Control the quality of printing products and do routine maintenance work on XEROX C75.

Switzerland

Dec. 2013 - 2016

Reiden Technik AG

ENGINEERING INTERNSHIP

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

Reiden, Switzerland

Jan. 2013 - Apr. 2013

Extracurricular Activity

SCI Switzerland (Service Civil International)

MEMBER

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

Switzerland

2010 - 2014

Scientifica, ETH Zurich and University of Zurich

TEACHING ASSISTANT

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

Zurich, Switzerland

2015

TheAlternative.ch, [project 21]

ASSISSTANT

- Helper and Troublershooter at various Linux Installation Day events.

Zurich, Switzerland

2014 - 2015

(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.

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 **Resprentative**, Activity Fair

Switzerland

2015 **Staff**, Scientifica Event

Switzerland