

Dat-Chanh Nguyen

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Education

The Lucerne University of Applied Sciences and Arts

Luzern, Switzerland

B.SC. IN MECHANICAL ENGINEERING

2016 - 2020

- Major: Product Design and Mechatronics
- Project: Develop an autonomous, all-terrain robot, transporting cargoes.
- Bachelor thesis: Develop a bioreactor as part of life supporting system for a moon habitat - Industry partner: SwissSpaceCenter (SSC) & European Space Agency (ESA) (2019)

KSR (Kantonsschule Reussbühl)

Luzern, Switzerland

HIGHSCHOOL

- Major: Mathematics and physics

Skills

Engineering Tools

CAD: UNI NX, Autodesk Inventor/Fusion 360;
SPS: TwinCAT3, Selectron CAP1131, CodeSys;
Computer Vision: OpenCV4, MVTec HALCON;
FEM: Ansys (Statics)

Programming

Language: Python, MatLAB; C/C++, Fortran, VBA, LaTeX;
Database: MySQL/PostgreSQL;
Version Control: Git

Misc. Language

SAP, Qlikview (CAQ), gPDM Windchill, Navigator (Quotation creation)
Vietnamese, (Swiss-)German, English, Italian (B1)

Experience

Bühler AG

Uzwil, Switzerland

INTERNSHIP IN PRODUCT MANAGEMENT AND D&D

Feb. 2019 - now

- Market analyse: Benchmarking various product families in Business Component (BC)'s portfolio (i.e. filters, airlocks, pipe diverters) against competitors (on market share, and define optimal manufacturing cost/sales prices in Navigator), to maximise the margin-potential.
- CAQ: Analyse statistics of installation and customer complains, to identify the problem hotspots for further development opportunities.
- Support international Sales Dept. with creating/configuring quotations in Navigator, and offering technical clarifications (via standard sheets or in contact with Lifecycle-managers).
- Managing Design-to-Cost projects, to further reduce manufacturing cost (i.e. diverters).
- Analyse and improve the filter portfolio on explosion-protection as well as dust emission to satisfy the conformity requirements (ATEX/IEC-Ex, AEx-NFPA68, etc.)
- Create safety analysis (SANA) for the conformity certification of the hopper filter LCCB.
- Building testing rigs, to test prototypes, specimen of suppliers: EPDM membranes, bearing rings, filter control units.
- Project management: Collaborate with various production sites (BZAM, BCHI, BBAN, etc.) to standardize the universal motor, and support roll-out airlock (MPSx), cyclone (MGXx) and filter (MVRx) on SIMBA

Swiss Steel AG

Emmenbrücke, Switzerland

HELPER

Jul. 2018 - Sep. 2018

- Support the annual revision of steel works (reservoirs, hydraulics crane systems).
- Carry out maintenance work at various parts of the production plant (of construction steel beams)

Hartmetall Estech AG

Hitzkirch, Switzerland

ENGINEERING INTERNSHIP

Jul. 2017 - Sep. 2017

- Assist in production hall
- Prepare quality control probes, before and after sinstering process.

Zimmermann Technik AG

Luzern, Switzerland

PARTIME WORKER

- Assemble and test magnet coils and various electronics systems/control cabinets.

SPOD - VSETH

SYSADMIN - OPERATING MANAGER

Switzerland

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

ENGINEERING INTERNSHIP

Reiden, Switzerland

Jan. 2013 - Apr. 2013

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

Extracurricular Activity

KCL - Kanu Club Luzern

MEMBER

Luzern, Switzerland

current

- Canadian canoe/kayaking

Scientifica, ETH Zurich and University of Zurich

TEACHING ASSISTANT

Zurich, Switzerland

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]

ASSISSTANT

Zurich, Switzerland

2014 - 2015

- Helper and Troubleshooters at various Linux Installation Day events.

SCI Switzerland (Service Civil International)

MEMBER

Switzerland

2010 - 2014

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

(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.