

Martin HOLUB



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Personal Statement

Being engineer in making, I am passionate about applying my skills to challenges in medicine. In doing, so I aim to help people to live their lives to the fullest. Having experience in both research and industry, I am currently looking for a part-time job or internship where I will further develop my skills and simultaneously create value for the customer.

Education

Swiss Federal Institute of Technology (ETH),
MSc. in Mechanical Engineering

📍 Zürich, Switzerland
📅 Sept 2016 – ongoing

- Specialization in Bioengineering

Brno University of Technology (BUT),
Bc. in Mechanical Engineering

📍 Brno, Czech Republic
📅 Sept 2013 – August 2016

- GPA 1.03 from 203 credits, Honeywell award for outstanding thesis, GE Foundation Scholar-Leaders Award
- Bachelor thesis “Cavitation in Microfluidics”: CFD for 2-phase flow in microfluidic device using Fluent software, output analysis and graphical representation in Matlab
- Selected subjects: Microsensors and Micromechanical Systems, Machine Learning, Automation, Engineering Design, Fluid Dynamics, Thermodynamics & Heat Transfer, Strength of Materials, Finite Element Method & ANSYS, Dynamics, Numerical Methods, Mathematics (I, II, III, IV), Physics (I, II)

Relevant Experience

Laboratory of Sensors and Nanosystems, Central European Institute of Technology (CEITEC)
Research Assistant

📍 Brno, Czech Republic
📅 Jun 2016 – Aug 2016

- Microfluidics: soft lithography, chip interfacing and testing, fluorescence microscopy
- Mechatronics: 3D printing, mechanics-electronics-software integration, component sourcing

IAESTE Czech Republic
Project Coordinator, Exchange Team Member

📍 Brno, Czech Republic
📅 Oct 2014 – Jun 2016

- Coordinating online version of Catalogue iKariera® - catalogue aiming to connect students and companies
 - Staff Manager at Career Fair iKariéra 2015 (70 companies and over 3 500 students), coordinating support team of over 50 people
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Robert Bosch, spol. s.r.o.

Summer Intern

📍 Budweis, Czech Republic

📅 Jun 2015 – Sept 2015

- Working in close cooperation with product technologists and interns in order to move current production procedure databases into new environment (SAP)
- Data management and analysis in Excel, holding employee trainings

Laboratory of Sprays and Fluid Atomization, Brno University of Technology

Research Assistant

📍 Brno, Czech Republic

📅 Oct 2014 – Mar 2015

- Information acquisition and organization, data analysis and processing (FFT), creating graphical output from data (Matlab)
- Cooperated on paper "Some aspects of disintegration of annular liquid sheet in pressure-swirl atomization"

Other

- Volunteering
 - Education (Museum of Romani Culture – Brno, 2015-2016) – teaching after-school lectures
 - Sustainable Development (Concordia Ile-de-France – Paris, 2013)
 - Culture (Allez les Filles – Bordeaux, 2014, Budějovický Majáles – Budweis, 2010-2013)
- Working abroad for two months (France, 2014)
- BEST Courses on Technology – Renewable Energy and E-Mobility (University of Erlangen-Nuremberg, May 2015), Recycling and Advanced Materials (Ghent University, July 2014)

Computer Skills

- *CAE Software:* Fluent, ANSYS, Matlab, Octave, AutoCAD Mechanical, Inventor
- *Programming:* Python, JavaScript, HTML and CSS, Arduino (all basic knowledge)
- *Other:* SAP, Microsoft Office, LibreOffice (all intermediate knowledge). Linux, Git (user-level knowledge), OneNote

Languages

- | | | | |
|-----------|----------|------------------|----------|
| • English | ●●●●●●●● | • German | ●●●●○●○● |
| • French | ●●●●○●○● | • Czech & Slovak | ●●●●●●●● |

Hobbies


Foreign
Languages


Travelling


Sports


Public Speaking


Cooking


Reading

Zürich, September 19, 2016

