



Lukas Silhan

Don't look for excuses,
accept challenges!



23 April 2020



Brno



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Software Skills —

Inventor



SolidWorks



JavaScript



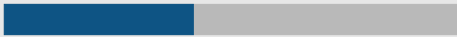
Python



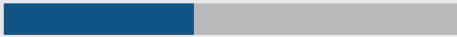
Matlab



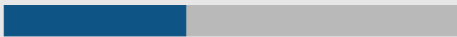
HTML



CSS



React



Zemax



Languages —

English Fluently - CAE certificate (C1)

German Intermediate knowledge.

Norwegian Beginner.

Czech Native speaker.

Personal skills —

Problem solving, Independent, Open minded, Positive, Teachable

Experience

- 8/2019-2/2020 R&D Mechanical engineer QRES Technologies, Olomouc
Engineering tasks within production and development of various industrial ink-jet printing machines. Creation of technical documentation, cooperation with production and electrical department. Hands on development of 3D sand printer and precision alignment tasks.
- 1/2019-7/2019 Opto-mechanical designer Alis Tech, Brno
Optical and mechanical design of projection systems for safety applications. Providing technical consultations and support for various projects.
- 9/2017-6/2019 Student researcher Institute of Scientific Instruments CAS, Brno
Complete design of spectroscopic system for reactive ion etching facility. Optical design performed in Zemax Optics Studio. Process further included opto-mechanical design of device, electronic assembly and connection of CCD detector and software development.
- 3/2015-12/2015 Junior mechanical designer Vystrcil s.r.o., Brno
During this internship I worked on the mechanical design of various acrobatic instruments and creation of technical documentation in a production company.

Education

- 9/2017-6/2019 Precision Mechanics and Optics BUT Brno
Master's study program focused both on theoretical skills and practical design courses. Specialized modules included: Electron optics, Microscopy and spectroscopy, Applied optics and Precision mechanics. MSc project: Mechanical and optical design of spectroscopic system for reactive ion etching system.
- 7/2016-6/2017 Erasmus exchange program NTNU Trondheim, Norway
One year exchange studies in materials science and technology. Finished by completing 2 team projects and 6 courses with exams. Projects included programming of material processes in Matlab (aluminium casting, diffusion, thermodynamics etc). Highlighted courses: Light and electron microscopy, Functional materials, Nanomaterials and Ceramics engineering.
- 9/2013-6/2016 Fundamentals of Mechanical Engineering BUT Brno
Through the 3-year long engineering program the taught modules focused on deep understanding of several mechanical industry areas such as Machine Design, Physics, Mathematics, Machining Technology, FEA Analysis or Material Engineering and more. BSc project: Preparation of ultra sharp tips for STM - TERS applications.
- 9/2005-6/2013 General grammar school Konice
Graduated and obtained high school certificate with honours: Mathematics (A) and Descriptive geometry (A).

Interests Climbing, travelling, fishing, jogging, physics

Other information

I am a mechanical engineer with a strong passion for climbing, travelling and outdoor adventures. I like overcoming my fears and every obstacle which is in my path. My dream job is to be part of an R&D team in a successful company, being able to combine engineering skills with coding and automation. Among other competencies of mine are strong communication skills, open minded thinking and the ability to look on normal things with a different view. I believe that the combination of my personal qualities, education and experiences makes me an ideal candidate for R&D positions.