

# Nico Lingg



## Curriculum Vitae

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*"Anyone who stops improving has stopped being good" - Robert Bosch*

## Engineering Experience

Aug. 2016 – present **Research Engineer**, ABCELLERA BIOLOGICS INC., Vancouver, BC Canada  
Currently responsible for designing and programming a robotic platform to facilitate the analysis and isolation of single cells.

- Research relating to the feasibility, implementation, and validation of improvements to robotic instruments to increase the performance of screening platforms
- The mechanical design and fabrication of new robotic screening instruments
- The development of new software and improvement on existing software associated with the instruments
- Trouble shooting and resolving mechanical and software issues

Sep. 2014 – Sep. 2015 **Co-op student**, ELEKTRA UAS GMBH, Nesselwang, Germany  
Participation in the development of electronics, avionics and autopilot

Feb. 2014 – Sep. 2014 **Voluntary Internship USA**, BSH HOME APPLIANCES CORP, New Bern NC  
Development and construction of a device for software validation

- Construction of the hardware
- Programming the microcontroller (Cortex M0) in C
- Assembly and testing of the device

Programming software with the interface I<sup>2</sup>C-USB to check the operation of capacitive touch panels

- Programming software with graphical user interface (GUI) in QT (C++)
- Creation and integration of library functions for I<sup>2</sup>C-USB interface
- Testing and validation of the software

Sep. 2012 – Mar. 2013 **Internship**, LIEBHERR AEROSPACE GMBH, Lindenberg, Germany  
3-axis measuring table for sensor evaluation

- Development of a tool for the control (VBA)
- Evaluation of systems using MATLAB Simulink
- Construction of mechanical adaptation for sensors

Development analysis for force, pressure, torque and position sensors

- Markt research and commissioning of the sensors
- Implementatio, analysis and evaluation of development tests ("RTCA DO-160")

## Education

Oct. 2014 – June 2016 **Master of Engineering in Mechatronics**,  
MUNICH UNIVERSITY OF APPLIED SCIENCES  
GPA: 1.0 (German grading system)

Aug. 2015 – July. 2016 **Master's Thesis**, The University of British Columbia, Vancouver, BC, Canada  
Title: Engineering Improvements for a Microfluidic Single-Cell Analysis Platform (grade: 1.0)

Oct. 2010 – Feb. 2014 **Bachelor of Engineering in Mechatronics**,  
MUNICH UNIVERSITY OF APPLIED SCIENCES  
GPA: 1.4 (top 5 %) (German grading system)  
**Bachelor Thesis**, LIEBHERR AEROSPACE GMBH, Lindenberg, Germany  
Title: Modelling and simulation of a torque sensor (grade: 1.0)

Sep. 2007 – Sep. 2009 **Fachoberschule**, Lindau, Germany  
Fachabitur (equivalent to A-level)

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## Voluntary Activities

- Mar. 2013 – Oct. 2013 **Robotic Laboratory „LASIM“**,  
MUNICH UNIVERSITY OF APPLIED SCIENCES  
- Team Strategy: Development of a robot strategy software with Python
- Oct. 2010 – Oct. 2012 **munichMotorsport (Formula Student Electric)**,  
MUNICH UNIVERSITY OF APPLIED SCIENCES  
- Package; Construction of the energy storage (CatiaV5)  
- Manufacture of the package and integration into the vehicle
- Sep. 2009 – Sep. 2010 **Voluntary Year of Social Service**, TURNVEREIN LINDENBERG  
- Group leader for youth free time activities  
- Scheduling group events

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## Scholarships

- Apr. 2015 – May 2016 **Deutschlandstipendium (German national scholarship)**, *Master*  
Sponsor: SPINNER GmbH
- Mar. 2012 – May 2016 **Online-scholarship e-fellows.net**
- Oct. 2012 – Mar. 2014 **Deutschlandstipendium (German national scholarship)**, *Bachelor*  
Sponsor: Zeidler-Forschungs-Stiftung

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## Skills

- Good PYTHON, CadSoft EAGLE  
Very good L<sup>A</sup>T<sub>E</sub>X, QT, C, C++, VBA, MATLAB, MAPLE, LABVIEW, LINUX  
Expert MS Office applications, CATIA V5, Embedded System (μC)

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## Language Skills

- German **First language**  
English **Fluent** *Internship USA, Canada*

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## Interests and Activities

- Family and friends
- Travel
- Sport in general

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## References

References available upon request

Vancouver, April 03, 2018

*Nico Lingg*