# Philip G. **Leindecker**

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## Education

### Swiss Federal Institute of Technology in Zurich (ETH Zurich)
*Zurich, Switzerland*

MASTER OF SCIENCE IN — *Sep. 2019 - TODAY*

- Physics

### University of Technology Vienna (TU Wien)
*Vienna, Austria*

BACHELOR OF SCIENCE IN — *Oct. 2016 - Jun. 2019*

- Technical Physics
- Computer Science - Software and Information Engineering

### Johannes Kepler University
*Linz, Austria*

BACHELOR OF SCIENCE IN — *Oct. 2015 - Feb. 2016*

- Technical Physics
- As a participant in the gifted education program: 'Students at Universities.'

### AHS - BG/BRG Brucknergymnasium
*Wels, Austria*

HIGH SCHOOL — *Sep. 2009 - Jun. 2016*

- Graduated with distinction
- with the final degree 'Matura' (equivalent of the German 'Abitur')

## Skills

| | |
|---|---|
| **Digital Skills** | Swift, JAVA, Python, C++, Neural networks, Tensorflow, Keras, iOS-Applications, macOS, Adobe Photoshop, LaTeX, Jupyter |
| **Web** | HTML5, CSS3, PHP, JavaScript, SQL, PostgreSQL |
| **Other** | Particle Physics, Quantum Optics, General Relativity, Differential Equations, Linear Algebra, Analysis, Elektrodynamics, Quantum Mechanics |
| **Language** | German (Mothertongue), Englisch (C1), French (B1) |

## Experience

### ETH
*Zurich, Switzerland*

ETH - TEACHING ASSISTANT — *Feb. 2020 - May. 2020*

- Teaching assistant in Analysis II for mathematics and physics students.
- Weekly exercise classes with approx. 25 students per class.

### CERN
*Geneva, Switzerland*

CERN - SUMMER STUDENT PROGRAMME 2019 — *Jul. 2019 - Aug. 2019*

- over 92 different nationalities in the programme, 6% acceptance rate.
- Attended the daily lecture and workshop programme for summer students and openlab students.
- Member of the ROOT Team working with ROOT and Jupyter Notebook/Lab.

### University of Technology Vienna
*Vienna, Austria*

TUTOR - MATHEMATICS I FOR MECHANICAL ENGINEERING — *Mar. 2019 - Jun. 2019*

- Weekly exercise classes with approx. 30 students per class.
- Presenting and checking weekly homework assignments in Mathematics I.

### University of Technology Vienna in cooperation with AC2T
*Vienna, Austria*

BACHELOR THESIS - NEURONAL NETWORKS IN THE FIELD OF TRIBOLOGY — *Dec. 2019 - Mar. 2019*

- Title: Pattern recognition in acoustic emission using neural networks
- Using neuronal networks (MLP, CNN, ...) to find correlations and recurring patterns in quasi-continuous acoustic samples from tribological experiments.

### Deutsche Bank AG
*Frankfurt, Germany*

SUMMER INTERNSHIP PROGRAMME 2018 — *Jul. 2018 - Aug. 2018*

- Introduction to banking and finance specific products and services.
- 1.Rotation: Mobile App Team of Deutsche Bank iOS application in the Digital Factory.
- 2.Rotation: Global Transaction Banking - Generation of test data using Recurrent Neural Networks on a GPU server.

**Daimler AG**                                                    *Sindelfingen, Germany*
RESEARCH AND DEVELOPMENT                                            *Jul. 2017 - Aug. 2017*

- Internship in the department for digitization in car development
- Assumption of operational tasks in the context of project management
- Implementation of solutions for future development cooperation
- Creating and managing Daimler internal Websites and Apps for employees

**TTTech Computertechnik AG**                                           *Vienna, Austria*
RESEARCH AND DEVELOPMENT                                                    *Aug. 2016*

- TTTech is the technology leader in robust networked safety controls.
- Responsible for: Software development in the Automotive Division

# Honors

| 2018 | **Ski Instructor**, Anwärter Ski in Tirol (Austria) | *Kitzbühel, Austria* |
|------|------------------------------------------------------|----------------------|
| 2018 | **TOEFL - Test**, 102 out of 120 points | *Munich, Germany* |
| 2016 | **Cambridge Certificate**, Level C1 | *Linz, Austria* |
| 2015 | **Certificate for Entrepreneurship**, passed the final exam with distinction | *Vienna, Austria* |

# Extracurricular

**Maaply**                                                                *Austria*
FOUNDER, CEO, DEVELOPER                                              *Jan. 2020 - TODAY*

- Creating an App for location based sharing of messages, live-tracking and channels
- Website: Maaply.com

**212 ° F**                                                               *Austria*
DEVELOPER                                                                 *April 2020*

- Development of an iOS based App, which allows one to detect the sound of boiling water in the kitchen.
- Makes use of the Apple Turi Create framework for the custom trained ML model.
- Website: leindecker.ch/projects/1-212-f

**Exashare**                                                              *Austria*
FOUNDER, CEO, DEVELOPER                                              *Sep. 2014 - TODAY*

- Creator, founder and manager of a student file-sharing platform: exashare.at

**Physics Olympiad, Chemistry Olympiad**                                  *Austria*
PARTICIPANT                                                        *2012, 2013, 2014, 2015*