



Curriculum Vitae

Personal Data

Principal Residence

Dipl.-Ing. Martin Napetschnig, MSc BSc
Amselweg 4
9100 Völkermarkt

Secondary Residence

Leonhardgürtel 34/2
8010 Graz

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Date of Birth 28th March, 1993 in Bad Eisenkappel

Education

18th of June 2012 Matura passed with distinction.

09/2004 – 06/2012 Alpen-Adria-Gymnasium (high school) in Völkermarkt.

09/2000 – 07/2004 Volksschule (elementary school) in Völkermarkt.

University Studies

02/2018 – 11/2020 NAWI-Graz master study programme "Technical Physics" in cooperation with the Karl - Franzens - University of Graz and the Graz University of Technology, passed with distinction.

Specialisation in the branches "Semiconductor Devices", "Electron Microscopy" and "Laboratory Technology".

Title of master thesis (supervised by Prof. Dr. Peter Knoll & Dr. Jan Ihle):

"Optimisation of NTC ceramics containing iron".

04/2017 – 09/2020 Master study programme "Physics" at the Karl - Franzens - University of Graz, passed with distinction. Specialisation in theoretical physics.

Topic of Master thesis (supervised by Dr. Markus Huber and Prof. Dr. Reinhard Alkofer):

"Yang-Mills correlation functions in linear covariant gauges from Nielsen identities".

03/2013 – 04/2017 Bachelor study programme "physics" in cooperation with the Karl - Franzens - University of Graz and the Graz University of Technology, passed with distinction.
Topic of Bachelor thesis (supervised by Dr. Markus Huber):
"On the gauge dependence of Yang-Mills propagators in linear covariant gauges in three dimensions".

[02/2016 – 06/2016] Semester abroad in Bologna, Italy at the "Università degli Studi". Performance of courses regarding theoretical physics.

Professional Experience

Since 12th November 2020

Calltaker for the COVID-19 hotline at the Austrian Red Cross in Strassgang, Graz.

15th July, 2020 – 30th September, 2020

Summer internship at the Institute of Science and Technology (IST Austria) in Maria Gugging. Research project in the group of Prof. Stefan Freunberger in the field of "Materials Electrochemistry".

1st April, 2018 – 31st October, 2018

Cooperation in the department for Research and Development of NTC temperature and pressure sensors at TDK Electronics in Deutschlandsberg (former TDK EPCOS) in the course of the master thesis 'Optimisation of NTC ceramics containing iron'.

1st July, 2017 – 31st March, 2018

Part - time job at TDK EPCOS in Deutschlandsberg in the laboratory for chemical analysis.
(Functions: X - ray fluorescence spectroscopy (XRF), Simultaneous Thermal Analysis (STA), Measurements on grain size & specific surface area (SSA), loss on ignition & humidity.)

4th July, 2016 – 30th September 2016

Internship at TDK EPCOS in Deutschlandsberg in the laboratory for chemical analysis.

(Functions: Simultaneous Thermal Analysis (STA), Measurements on grain size, loss on ignition & humidity.)

6th July, 2015 – 31st August 2015

Internship at TDK EPCOS in Deutschlandsberg in the laboratory for chemical analysis (functions: Scanning Electron Microscopy (SEM) & Simultaneous Thermal Analysis (STA).)

21st July, 2014 – 12th September 2014

Internship at CERN for the Institute for High Energy Physics Vienna (HEPHY) of the Austrian Academy of Sciences (ÖAW). Functions: programming software regarding the trigger upgrade.

9th July, 2012 – 8th January 2013

Military service at "Pionierbataillon 1" in Villach.

Vacation Job

During the summer months between 2009-2011 and from July, 2013 - September, 2013 at the "Strandhotel Seewirt" in Sankt Kanzian am Klopeinersee.

Programming Skills

Advanced level: Matlab, Mathematica, C, C++, Python, Julia.

Basic knowledge: HTML, Visual Basic, R, LabView, Arduino, Assembler.

Language Skills

German (mother tongue)

English (fluent oral and written command)

Italian (advanced)

Spanish (basic knowledge)

Teaching

Winter term 2019/20: Tutor in exercises on classical mechanics and classical electrodynamics.

Spring term 2018/19: Tutor in exercises in quantum mechanics.

Winter term 2017/18: Tutor in exercises on classical mechanics.

Physics competitions

2020: Participation at the first online '**P**hysics **L**eague **A**cross **N**umerous **C**ountries for **K**ick-ass **S**tudents' (PLANCKS) competition with the team 'DerAlteKannsNichtLassen' after winning the Austrian pre-selection in Graz.

2019: Participation at the Austrian PLANCKS pre-selection in Linz with 'DerAlteKannsNichtLassen'.

2018: Participation at the international PLANCKS competition in Zagreb, Croatia, after winning the Austrian pre-selection in Vienna with 'DerAlteKannsNichtLassen'.

2017: Participation at the Austrian pre-selection for PLANCKS in Vienna with the team 'Die Erhaltungsgrößen'.

Driving Licences

Since 10th May 2011 A, BE, CE, F

Since 6th June 2010 B

Interests & Hobbies

Head of the local chess club in Völkermarkt.

Graz, 22nd April, 2021