

Léon van Velzen

Birthdate: 01-10-1997

Location: Leiden (NL)

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www.leon.science

Nationality: Dutch

Willing to relocate: Yes

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WORK EXPERIENCE

Amsterdam Scientific Instruments july 2020 - september 2021

- ▶ Leading developer of a high throughput (6 Gb/s) Timepix3 data analysis pipeline
- ▶ Leading developer of the user interface used by customers to operate the detectors
- ▶ Applied physics internship on data analysis graded 90%

ChannelEngine august 2015 - september 2017

- ▶ Supported a startup to scale and increase revenue by refining the C# software architecture
- ▶ Designed and implemented most of the new (version 2.0) API
- ▶ Integrated third party marketplaces like Bol.com, CDiscount and Ebay to the platform

EDUCATION

TU Delft - Master Applied Physics september 2020 - july 2022

- ▶ Specialized in physics for instrumentation (nanotechnology)
- ▶ Average grade 85% (internship see above)
- ▶ [Thesis](#) on SEM aberration correction graded 90% (Pieter Kruit research group) (Hitachi High-Tech collaboration)

Leiden University - Bachelor Physics september 2017 - july 2020

- ▶ Graduated cum laude (average 90%)
- ▶ Theoretical Physics with Advanced Theory Track (extracurricular problem sets)
- ▶ [Thesis](#) on computational modeling of plasma flow graded 95% (Dirk Bouwmeester group)

Univ. of British Columbia - Exchange september 2019 - january 2020

- ▶ Courses in physics and engineering (average 88%)

Leiden University - Computer Science september 2017 - july 2018

- ▶ Completed first year courses alongside physics bachelor (see above)
- ▶ Propedeuse obtained cum laude (average 91%)

Visser 't Hooft Lyceum - High School september 2010 - july 2016

- ▶ Graduated magna cum laude (average 87%)
- ▶ Three hour standardized final mathematics exam made without *any* mistakes

LANGUAGES

| | Fluent | Moderate |
|----------|------------------|--------------------------------------|
| Human | Dutch English | Italian |
| Computer | Python C | C#, Java, JavaScript, Lisp, Idris |

PERSONAL PROFILE

Curious, driven, and outgoing character. I have an incessant drive to understand the world around me and to be challenged intellectually. At a young age, this drive made me study computers and mathematics on my own, while later at university I chose to study physics to understand the inner workings of nature itself. I love to travel and to meet international people.

SOFTWARE PROJECTS

[Traceon](#) - tracing electrons in electrostatic geometries
[WebApp Todo](#) - showcases the power of a dependently typed programming language
[Tetris](#) - a tribute to an old game

INTERESTS

Traveling

- ▶ Cycled all of New-Zealand in four months
- ▶ Member of a student travel society
- ▶ Spent five months in Vancouver as an exchange student
- ▶ Spent three months backpacking the Balkans
- ▶ Spent two months backpacking the Philippines and Vietnam

Hiking and exploring nature

Sports (running, gym)

Playing the guitar