Léon van Velzen

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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 2020 - 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)

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 standarized 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 workings of nature itself. I love to travel and to meet international people.

SOFTWARE PROJECTS

Traceon - tracing electrons in electrostatic geometries
Pyka - novel Lisp programming language
WebApp Todo - simple web application in 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

Hiking and exploring nature

Sports (running, gym)

Playing the guitar