



Curriculum Vitae

Theo Rieken

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General

Name Theo Johannes Rieken
Born 22.03.1995, Hamburg
Email mail@theorieken.de
Web www.theorieken.de
Phone +49 173 159 30 70
Address Heckscherstraße 37
20253 Hamburg

Summary

I am studying engineering and have a strong passion for remarkable system design. My main emphasis is on information technology and intelligent systems, where I have already acquired a wide range of expertise from embedded (information) systems over web-based data processing and design to scientific computational modeling and simulation. Besides science and technology, I am interested in management and business informatics, with a special affinity for new business development.

Scholarships

- **Industrial NIT Scholarship by NXP**
The scholarship covers the tuition of the NIT double degree masters program „Technology Management“ at TUHH.
- **HAWeltweit Africa and Asia by HAW**
The scholarship covered the cost for a trip to Dakar, Senegal to work with local students at the ESP university.

Languages

German

native language

English

fluent, negotiable

Experience

Executive Partner | Codinate UG

Jan 20 - present

I founded the startup company Codinate UG with two other partners in the beginning of 2020. I am responsible for the development of our framework solution „Omnia“. We are developing the framework to create individual web-based information systems for companies that function as a platform, where all data of a company is joined together. Omnia also features a data science and -analysis engine as well as a social intranet, and a document- and project management system.

Working Student | NXP Semiconductors

Jan 20 - present

Being a working student at NXP semiconductors in the IVN team (in vehicle networks) of the business unit automotive, my main area of operation is the automotive ethernet solutions (AES) sector where I create embedded software solutions for ethernet switches and PHYs - mainly low level drivers. The main focus lies on the ethernet technology and telecommunications in general while the main languages I am working with are Python and C.

HiWi | Technical University of Hamburg

Sep 19 - Jan 21

At the institute for continuum mechanics and mechanics of materials (ICM) of the Technical University of Hamburg, I am working with Prof. Dr.-Med. PhD. Miftahof from TUHH on the multi scale modeling and simulation of the urinary bladder - brain axis. The topic is situated within bioengineering and mechanobiology and the aim is to develop a software environment where one can run scientific computations and numerical simulations of any kind of any biological signaling system (in this case the urinary-bladder-brain-axis).

Working Student | Art Works! UG

Sep 15 - Dec 19

As a full stack developer, I created framework-based software systems and other IT solutions of many different kinds (e.g. intranets, data processing architectures and more). Besides that, I also functioned as a IT consultant for bigger projects of certain customers.

Academic Tutor | HAW Hamburg

Mar 18 - Sep 18

I was an academic tutor for groups of about 20 to 30 students of mechatronics engineering and gave support in the process of deepening the fundamentals in the two subject areas of electrical engineering and engineering design.

Qualifications

- HAW Matlab® Simulink Course
- UHH training as an academic tutor
- Participation in NXP Cup Challenge
- HAW Product Design Competition
- Participation at Cern Spring Campus
- TOEF English Test - 102/120 Points

Expertise

Technical Understanding	Control Systems	
Python	Business Informatics	PHP
Relational Databases	Information Technology	
(Computational) Modeling	Datenanalyse	
Rest API	Embedded Systems	JavaScript
System Development	Finite-State Machines	
Matlab	Algorithmen und Datenstrukturen	
Queue Based Databases	Data Science	Unix
Economical Understanding	Mathematics	
Layered Software Architecture	Robotics	
React	Project Management	C / C++
Scientific Computation	Web Applications	
Java	Business Development	Social Skills
R	Business Strategy	Artificial Intelligence
Software Architecture	Cyber-Physical Systems	

Awards

- **Hauke Trinks Award 2020**
I was awarded the first place of the HTA for my Bachelor Thesis situated in the area of mechanobiology.

Working Student | psmmedia GmbH

Feb 15 - Mar 18

I created web applications for big data analysis and visualization as well as automations. The systems were based on MVC frameworks like CakePHP or Laravel and DBMS like MySQL and Redis with use of Rest and Graph API systems. I gained detailed insights in software engineering, architecture design, complex algorithms and database design. Working in a small but professional development team also taught me how to work agile.

Intern | Ballerstedt GmbH

Jul 16 - Sep 16

I have completed a 13 weeks pre-study internship for engineering studies at Ballerstedt GmbH. I went through the production line and manufacturing section of the company, that produces all sorts of plastic parts. Besides, I visited workshops and got to know all sorts of important technical basics.

Intern | Lufthansa Technik AG

May 10 - May 10

This was a two-week internship in engineering. During the internship, I gained insights into a few laboratories, maintenance and participated in engine tests.

Education

Mechatronics M.Sc.

TUHH - Technical University of Hamburg

Oct 20 - Sep 22

Technology Management M.A.

NIT - Northern Institute of Technology

Oct 20 - Sep 22

Business Informatics B.Sc.

FernUniversität of Hagen

Jun 18 - Jun 24

Mechatronics B.Sc. | Ø 1.79

HAW - University of Applied Sciences Hamburg

Sep 16 - Jun 20

TUB - Technical University of Berlin

Apr 19 - Sep 19

Abitur | Ø 2.1

Gymnasium Bornbrook, Hamburg

Jun 05 - Jun 13

Frances Kelsey High School, Canada

Sep 10 - Jul 11

Memberships

- HAW Student Council of Mechatronics e.V.
- Hamburg Aviation Young Professionals e.V.