

Jonathan Schaaij

From: Personal Website



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jschaaij.nl

27. April 2001

EDUCATION

University of Twente — Master Robotics

September 2022 - Present

Prospective Graduation: Summer 2024 - Master of Science

Master thesis: (In progress) [Optimizing robot and actuation design through co-design](#)

Subjects: Systems Engineering, Technical Design Processes, Image Processing, Computer Vision, Robot Navigation, Electric vehicle design, Engineering Project Management, Machine Learning, Optimal Estimation

University of Twente — Bachelor Advanced Technology

September 2019 - June 2022

Bachelor Thesis : Self-sensing properties of continuous carbon fiber reinforced, 3D-printed beams ([Link to publication](#))

Minor: Software-Systems (Nov. 2021 - Feb. 2022)

Subjects: Mechanics, Electronics, Thermodynamics, Fundamentals of Materials, Signals & Models, Fluid Mechanics, Software Systems, Computer Systems, Intro to Mechanical Engineering, Dynamics

Lise-Meitner Gymnasium — Abitur (Grade 1.2)

September 2011 - June 2019

Main subjects: Math, Physics, Chemistry

Student Academy — Automation technology

October 2017

Student Academy — Japanese language and culture

October 2018

WORK EXPERIENCE

ROSEN Innovation and Research Center — Project Intern

September 2023 - December 2023

I designed a new robotic movement platform for the repair of concrete water pipelines. During this project I had to make a mechanical design in Solidwork, do a FEM analysis of critical components, write control software using python and an operator interface using Svelte.

Lente Digital — Fullstack web developer

December 2022 - Present

Neuenhauser Maschinenbau — Prototype Engineer

July 2022 - Present

I work on AGV Safety Systems, 3D Data analysis, HMI interface for AGVs. process automation.

Scouting, Coevorden — Youth group companion (voluntary)

2021 - Today

TECHNICAL SKILLS (# 10)

Python(9) Java(8) C++(6) C(8)
Matlab(7) Linux (9) Arduino(8)
RaspberryPi(10) SQL(5) KiCAD(7)
3D-Printing(9) CAD(7) FEA(6)
MS-Office(8) Javascript(6)
Typescript(6) Inkscape (6) Git(9)

SOFT SKILLS

Teamwork Problem-solving
Communication Planning
Time-management Goal-oriented
Detail-oriented Agile

PROJECTS

PID controlled Ping-Pong bouncer

 [Ping Pong Bouncer](#)

November 2020

Home automation system

Upgraded 3d-Printer

Computer class for the elderly

April 2017

Management Information Game
(MIG)

June 2018

School first aid programme

Year 2015/16

Leiden Model United Nations

November 2018

Budapest International Model
United Nations

April 2018

European competition winner

([Article](#))

January 2019

LANGUAGES

English (Cambridge C2)

Dutch (Native Language)

German (Bi-lingual)

HOBBIES

Skydiving Scouting
DIY-Projects 3D-Printing