

FELIX DOUVEN

MECHATRONICS ENGINEER

EDUCATION

sept 2019
apr 2024

- Fontys University of Applied Sciences, Eindhoven
BACHELOR MECHATRONICS ENGINEERING (ADAPTIVE AUTOMATIVE SYSTEMS)
 - V-Model, Flowcharts, UML, ERD, Client-Server, Layered Architecture
 - Expertise in Control, Electrical, Mechanical Engineering & programming

apr 2023
aug 2023

- Chuo University, Tokyo, Japan
GLOBAL MANAGEMENT (MINOR)
 - Japanese lessons
 - Cross-Cultural Management & Risk Management

WORK EXPERIENCE

sept 2024
Now

- Technical Support Engineer, Manufacturing dept. (Twinscan factory)
ASML HOLDING N.V., EINDHOVEN
 - Reduced troubleshooting time and increased first-time diagnostic accuracy
 - Created knowledge transfers to increase sensor & electrical fault resolution
 - Increased webform satisfaction rate from 55% to 78% as DNMM key user
 - Led 2 & supported 2 factory-wide escalations with process/design impact

nov 2023
apr 2024

- Prototype Engineer & System designer, Electrocatalysis dept.
VSPARTICLE B.V., DELFT (Internship)
 - Integrated Python, C++, PCB design & system architecture in development
 - Enhanced sustainability and enabled scalable production integration
 - Reduced manual labor time during tests to nearly zero with Python scripts
 - Boosted gas reuse from 0% to 88%, saving €70K/year per unit

feb 2022
july 2022

- Prototype Engineer, Innovation dept. (Medical Systems)
PHILIPS N.V., BEST (Internship)
 - Developed the first mockup of the next-gen Image Guided Therapy System
 - Optimized for manufacturability using FEM and cost-effective parts
 - Led CAD assembly, MATLAB simulations, and mechanical prototyping
 - Delivered a prototype used to secure early-stage stakeholder funding

ACHIEVEMENTS

- LEAN MANUFACTURING YELLOW BELT ASML
- PROBLEM SOLVING KEPNER TREGOE
- CSWP MECHANICAL DESIGN SOLIDWORKS
- CSWP SHEET METAL SOLIDWORKS
- CSWA MECHANICAL DESIGN SOLIDWORKS

AWARDS

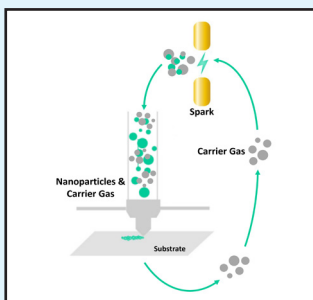
- HOLLAND SCHOLARSHIP AWARD

PROJECTS



Image guided therapy system

- Feasibility study
- Robotics focus (mechanical & control engineering)



Gas recycler for nanoprinter

- Working prototype
- EMC-proof electrical design



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[LinkedIn](#) & [GitHub](#)



The Netherlands,
Eindhoven

ABOUT ME

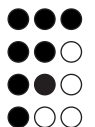
I am a highly ambitious engineer who does not back down easily. I try to understand everything I can with as much research as possible and love to keep learning. My most prominent skills include system design, CAD (Solidworks), Embedded engineering and data analysis. My goal is to use my positive attitude and critical thinking to make complex challenges feel structured and lightweight.

HARD SKILLS

Python
C++
SolidWorks CAD
FEM analysis
Matlab
Agile
English
Japanese

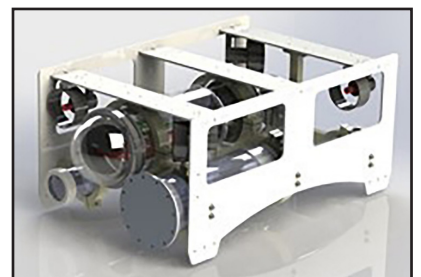
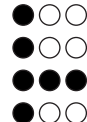


System Design
PCCSIM
SPC
Circuit design



SOFT SKILLS

Time Management
Root cause analysis
Critical Thinking



Autonomous underwater vehicle

- I led the AUV's electrical & system design defining the constraints
- Developed PCB for leak detection, power electronics and sensor processing