

Yannick Rousseeuw

06/06/2001

Phone: +46 739 024 608

Email: yannick.rousseeuw@gmail.com

LinkedIn: [Yannick Rousseeuw](#)

Birthplace: Bruges, Belgium

Address: Nordanväg 3C, 222 28 Lund

Education

Lund University - LTH Lund Tekniska Högskola

Lund, Sweden

Industrial PhD - Volvo AB/ Lund University

2024-present

Hydrogen for internal combustion engines.

HAN University of Applied Sciences

Arnhem, Netherlands

Master Automotive Systems

2022-2024

Relevant coursework:

- Sustainable Fuels, Engines and emissions
 - Thermodynamics
 - ICE combustion strategies
 - ICE fuels
- Innovative Powertrains: ICE, Hybrid, Electric
- Applied control
- Systems modeling

Master thesis: (*Erasmus abroad*)

- Company: CMT-Clean Mobility & Thermofluids (UPV)
- Subject: Research auto-ignition characteristics of hydrogen

University College VIVES

Kortrijk, Belgium

Bachelor Automotive Technologies, magna cum laude

2019-2022

Internship: (*Erasmus abroad*)

- Company: Rimot.io Inc
- Subject: Research in marine vessel electrification

Onze-Lieve-Vrouwecollege Assebroek

Brugge, Belgium

Mathematics & Science

2013-2019

Professional Experience

Volvo Group Trucks Technology

Gothenburg, Sweden

Powertrain engineering - Combustion systems, integration & verification

2024-present

Industrial PhD Engineer (in collaboration with Lund University)

- Develop hydrogen combustion concepts for heavy-duty engines (HPDI, mixing-controlled)
- Design and execute optical engine experiments (schlieren, chemiluminescence, spark induced breakdown spectroscopy (SIBS))
- Design, build, and commission hydrogen test infrastructure (ATEX, gas handling, safety PLC, LabVIEW, NI FPGA)
- Develop Python pipelines for high-speed imaging and quantitative data analysis
- Collaborate with Lund University, Chalmers, and Okayama University

CMT – Clean Mobility & Thermofluids (UPV)

Valencia, Spain

Research auto-ignition characteristics of hydrogen (Internship abroad)

2023-2024

- Chemical kinetic modelling using Cantera
- Advanced fluid dynamic calculations
- Experimental research using an RCEM (Rapid Compression and Expansion Machine)
- Data analysis

Rock and Roll classics

Varsenaere, Belgium

Oldtimers garage, specialized in high end classics (student job)

2021-present

- Periodic maintenance of Oldtimers
- Diagnosis and repair

Rimot.io Inc

Halifax, NS, Canada

Research in marine vessel electrification. (Internship abroad)

2022

- Marine electronics integration: Installing and configuring various monitoring systems to gather engine conditions, boat movement and weather conditions.
- Data analysis: collecting, cleaning, and analyzing data using Python.
- Using CAN bus protocols: CAN open, J1939 for configuring hardware

IKWV

Zeebrugge, Belgium

Sea lifeguard (student job)

2019, 2020

- *Ensure safety of bathers*
- *Teamwork and communication*
- *First aid training*

Technical Skills

Programming:

- Python (NumPy, SciPy, scikit-image, Cantera)

Data acquisition & control:

- LabView, NI FPGA

Engineering tools:

- GT-Power, MATLAB/Simulink, CATIA ,Creo

Other:

- Microsoft Office, Photoshop

Language Skills

- Dutch (*Native language*)
- English (*Fluent*)
- French (*Basic*)
- Swedish (*Basic*)

References

Contact Person	Relation
Mr. James Craig CTO, co-founder Rimot <i>Email:</i> james.craig@rimot.io <i>Phone:</i> 888-368-2440	James Craig mentored me during my internship at Rimot.
Dr. Menno Merts Researcher at MARIN <i>Email:</i> M.Merts@Marin.nl <i>Phone:</i> +31 (0)6 15 09 77 68	During my studies, I had the privilege of being taught by Menno Merts during the course of internal combustion engines, and he also served as my supervisor for the course project.