ir. Frank Boerman

Personal data

Name:	Frank Boerman	
Date of Birth:	23 Maart 1994	
Adress:	De Linnenbleker Boxtel	
Nationality:	Dutch	
Phone number:	+31 6 44 11 19 57	
E-mail:	frank@fboerman.nl	
Website:	https://boerman.dev/	

Interests

It is important to me that my work helps build a better world for all of us. I have a passion for investigating societal issues and explaining them to both experts and the general public. My main interest is currently the energy transition. I use my knowledge and skills to evaluate analytical tools which are currently available. Furthermore, I love to deep dive into analytical topics, either looking for improvements of solutions that already exists, as well as helping others with new creative ones.
This passion is the driver of my work at TenneT. Here, I work in the heart of the energy transition, specially designing improvements aimed at cross border electricity trade, both in the capacity and the market domain.
I also value societal impact and sharing my expertise with the greater public. To achieve that, I analyse public datasets to answer questions mainly relating to the energy transition. The results of my analyses, as well as data visualizations, are freely available via my blog and social media.

Skills

In the past years, I have developed myself as an internationally known expert of Flowbased Capacity Calculation. I support my colleagues by performing analysis on the Flowbased process performance to help with improvements, both within TenneT and in an European context. I have a proven track record of published analysis on my blog and linkedin, as well as internal publications.
By doing this I have build up experience in writing and presenting data analysis methodology and results, with specific expertise in the European energy system and markets.
To make my publications possible I also have experience with gathering and processing large volumes of data, for example running my own public data dashboard at data.boerman.dev.
Through my volunteering work, I have experience with working in a team, managing organizations, negotiating and find solutions considering opposite options.
I speak and write fluently Dutch and English, which were developed over multiple years of professional use.

Personality

How other people describe me: self assertive, go-getter, ambitious, meticulous, open and friendly. I love doing hikes in nature, preferable in mountainous areas, but also like to go on culture city trips. Next to this, I like to read books on topics of history and international relations.
In my student time I have danced at student dance association esdv Footloose, mainly salsa and bachata.

EDUCATION

2017 - 2020	MASTER ELECTRICAL ENGINEERING **Eindhoven University of Technology**, Eindhoven Specialization: Embedded Systems
SEP 2012 - 2017	BACHELOR ELECTRICAL ENGINEERING **Eindhoven University of Technology**, Eindhoven
SEP 2005 - JUL 2012	HIGHSCHOOL: VWO, NT EN TECHNASIUM **KnippenbergCollege**, Eindhoven

WORK EXPERIENCE

MAR 2021 - NOW	Process Specialist Flowbased SOP-TRS TenneT Process Specialist at the System Operations Transmission Services department of TenneT . I act as an internal data analyst to assist my team members mainly on the topic of Flowbased Capacity Calculation.
AUGUST 2022 - NOW	Founder and owner of Amun Analytics My business umbrella for all things related to my side projects, mainly data analysis and visualizations. I also do ad-hoc consulting on various topics under this banner.
AUG 2020 - FEB 2021	Junior Engineer LPN TenneT Traineeship with Large Projects Nederland (LPN), focus at the disciplines of secondary and telecom engineering
AUG 2017 - NOW	Founder and owner of Kolibri Solutions Founded in August 2017, Kolibri Solutions is a software development company that specializes in digital administration and python programming. It is a spinoff of the ELE faculty of the TU/e for creation and maintenance of the BEP Marketplace and Master Marketplace. For more information: https://kolibrisolutions.nl/
MAY 2019 - JUNE 2020	Graduation project: Coherent De-Dispersion of Radio Pulsar Signals using Dataflow on FPGA In this project I developed an application for the new dataflow platform StaccatoLab. This platform enables mapping data driven dataflow graphs to FPGA's in a user friendly way for fast performance. The application focuses on processing large ammounts of data in a parallel fashion: parsing astronomy telescope data to search for pulsar stars. More information can be found on my blog https://boerman.dev/
NOV 2018 - FEB 2019	Internship pilot functional safety PMP Created a proof of concept for a pilot of functional safety in a motor control embedded platform (PMP)
JUL 2018 - NOV 2018	Embedded Software Designer at Prodrive Technologies Worked on the Prodrive Motion Platform (PMP)

AUG 2016 - AUG 2017	Programmer Team Marketplace ELE Founded by me with support from the faculty to help with the administration of the influx of new students. Developed and maintained the BEP and Master Marketplace systems. Since August 2017 the company Kolibri Solutions is founded from this.
2015 - 2017	IOT Programmer ECO group After succesfully completing my Bachelor End Project at the ECO group of the ELE faculty at TU/e I stayed on as student assistant to help develop an IOT platform. This included creating management platforms, server administration and programming frontend interfaces.
JAN 2015 - DEC 2015	Interface & Backend Programmer EIT-ICT-RICH The EIT-ICT-RICH project was a collaboration between the TU/e, NXP, Swedish Institute of Computer Science and the university of Twente on the area of IOT. I was involved in programming a scheduler for wireless transmissions in an IOT network and creating a visualization for network operators. This visualization showed how the network behaved and gave insights on how to optimize it. My bachelor end thesis was based on parts of this work
2015 - 2017	Student Assistent TU/e ELE Tutor with Computation I en II focusing on computer architecture and C programming
2015 - 2016	Interface Programmer at Avular Avular is een startup company that specializes in building drones. I worked on designing and implementing their user interface

VOLUNTEER WORK AND OTHER ACTIVITIES

November 2023	Expert energy system for national broadcaster NOS Gave interview to dutch news program "nieuwsuur" as an expert on energy systems to provide commentary on political program of Volt for national elections
May 2021 - December 2021	Co-Chair Candidate Committee Municipal Elections 2022 Elected position to select candidates for the election list for the municipal elections 2022 from Volt Arnhem&Nijmegen
2016 - 2020	ICT committee esdv Footloose Responsible for the website as well as administrative systems such as for dance exams and the entire server infrastructure
2017 - 2020	Facility committee esdv Footloose Responsible for maintaining light and other facilities in the dance hall
2017 - 2020	Archive committee esdv Footloose Founded by me, responsible for gathering and archiving all relevant data of the association
2019	Scala Coordinator Introduction 2019 Representative of the culture umbrella association Scala during the negotiations about the Introduction 2019 as well as internal coordinator between all member associations
2015 - 2017	Board Secretary IEEE Student Branch Eindhoven As secretary I was responsible for all communications within the association as well as organizing activities
2015 - 2016	Treasurer Spolu committee Thor With three fellow committee members we organized a study trip to the Czech Republic