

# ir. Frank Boerman

## PERSONAL DATA

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## INTERESTS

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I have a passion for making technological advances applicable and accessible to the greater public. It is important for me that my work helps build a better world for all of us. My drive is to translate the knowledge of engineering into applicable solutions for societal challenges. This desire was the driver for the work I perform at my own company Kolibri Solutions. There I have used my programming knowledge to support the university of Eindhoven in automating their administrative processes. This drive also played a role in my graduation final project, where I partly focused on improving the research tools to make them more user friendly and accessible for scientists from other fields.

I aim now to apply this drive to the more challenging societal problems such as climate change and the energy transition. I am especially interested in the energy infrastructure, such as energy transport and the electricity market

## SKILLS

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With my volunteering work, my university and company work as well as my own hobby projects, I have a broad experience in programming languages and tools. For example: python, C, C++ and go. Furthermore, I worked on designing and implementing simulations, embedded platforms such as FPGA's and linux devops. I also have some experience with gathering and processing large volumes of public data, recently running my own data dashboard at [data.boerman.dev](https://data.boerman.dev/). My favorite language (and most well versed) is python. Both my own company as well as my graduation project as well as the vast majority of personal projects is written in it.

Through my volunteering work I have experience in working with others, managing organizations and learned to negotiate and find solutions considering opposite options.

I speak and write fluently dutch and english and can read and listen to basic german.

## PERSONALITY

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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. In my student time I have danced at student dance association esdv Footloose, mainly salsa and bachata. I have also been active there on the organization side of things.

## EDUCATION

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

## WORK EXPERIENCE

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MAR 2021 - NOW	Process Specialist SOP-TRS TenneT Process Specialist at the System Operations Transmission Services department of TenneT
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: <a href="https://kolibrisolutions.nl/">https://kolibrisolutions.nl/</a>
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 <a href="https://boerman.dev/">https://boerman.dev/</a>
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

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2021 - Now	Policy Team Volt Nijmegen Writing the policy plan for the municipality elections for Volt 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