



TJEERD BAKKER

Engineer - Robotics, Electrical, Software

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Netherlands

Tjeerd Bakker

ICheered

icheered.com

LANGUAGES

Python

C & C++

Typescript

Matlab

Rust

Go

Bash

TOOLS

Linux

Git

Github

Docker

LTSpice

PostgreSQL

MongoDB

SQL

Cloud

FRAMEWORKS

Sveltekit

Vue

React

FastAPI

PyTorch

OpenAI Gymnasium

Stable-Baselines3

Tensorflow

Matplotlib

Simulink

PROJECTS

I love working on side-projects, please ask me about them!

AI Drone Controller

Rapid Sighting With AI

Automated Photo Editor

Fast Sudoku Solver

Linux Server Setup

WaterMarker

Home Automation From Scratch

3D Design and Printing

ABOUT ME

As an enthusiastic engineer with a flair for innovation and a commitment to efficiency, I bring a unique blend of technical expertise in electrical engineering, robotics, and software development. Coupled with exceptional communication skills honed through debating in the European Youth Parliament, my passion for technology manifests in a variety of side projects, showcasing not only my capability for creative problem-solving but also my constant drive for innovation and my ability to deliver results effectively and efficiently! For this I was awarded the **ASML Technology Scholarship** in 2022.

EDUCATION

MSc Robotics | University of Twente

- Received **ASML Technology Scholarship**
- Topics: Mechatronics, Image Processing, Optimal Control, Machine Learning & Deep Learning
- Thesis A: "Optimized path planning for 3D printing using reinforcement learning"
- Thesis B: "Design of a variable-width path planning algorithm for voidless concentric 3D printing in extreme environments"

BSc Electrical Engineering | University of Twente

- Topics: Control Systems, Wireless Communication, Amplifiers and Oscillators, Signal Processing, Circuit Design
- Thesis: "Comparing processing techniques for real-time force estimation from surface EMG signals"

EXPERIENCE

Medior Fullstack Developer | Lente Digital

Jul. 2022 – Current

Utrecht

- Lead fullstack developer on several projects
- Responsible for direct communication with clients, obtaining requirements, design system architecture, implement it in a small team, deploying it to production, and maintaining a high standard of quality in both code, documentation, and security
- Automating CI/CD pipelines within the entire company

Junior Fullstack and Embedded Developer | Extendas B.V.

Sept. 2020 – Jul. 2022

Enschede

- Fullstack development on a large scale real-time monitoring project on gas stations
- Reverse engineering of communication protocols and create a control system for car-wash installations
- Work on software for electric vehicle chargers