



# TJEERD BAKKER

Engineer - Robotics, Electrical, Software

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Netherlands

Tjeerd Bakker

ICheered

icheered.com

## LANGUAGES

Rust

C & C++

Typescript

Python

Matlab

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!

## EDUCATION

### MSc Robotics | University of Twente

- Received ASML Technology Scholarship
- Topics: Mechatronics, IOT, Image Processing, Optimal Control, Machine Learning & Deep Learning
- Thesis: "Optimized path planning for 3D printing using machine learning"

### 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
- Responsible for ~7 projects, including completely rewriting multiple legacy systems to modern standards
- Direct communication with clients, obtaining requirements, design system architecture, implement it in a small team, and deploy it to production

### 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