



# KOEN CETON

## Systems and Control Engineer

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Rotterdam, the Netherlands

Date of birth: 04-06-1999

Nationality: Dutch

Gender: Male

www.linkedin.com/in/koen-ceton

koenc100.github.io/websitekoen/about.html

## LANGUAGES

Dutch: **Native**

English: **Proficient / C2**

German: **Intermediate / B1**

## SKILLS

### Hard Skills

- Analytical thinking
- Problem solving
- Python
- MATLAB/Simulink
- Excel, Power BI
- SolidWorks

### Soft skills

- Curious
- Leadership
- Communication
- Patience

## EXTRA

- Chaired Tennis Open Tournament (300+ participants)
- Organized TEDxDelft event (400+ visitors)
- Tutored high-school students in mathematics and physics
- Freelance data science solutions solver
- Built hobby mechatronics projects with Raspberry Pi

## INTERESTS

Tennis

Reading

Piano

Traveling

Hiking

Chess

Social activities

## ABOUT ME

*I am an engineer with a drive for solving complex and meaningful problems as part of a team. I enjoy working in dynamic, learning-focused environments where diverse expertise comes together to find the best solutions. My ambition is to grow in the field of data science, automation and complex systems engineering and to learn as much as possible.*

## EDUCATION

### MSc Systems and Control Engineering | Delft University of Technology

2021 – 2024

Delft, the Netherlands

- Thesis: "Advancing Deep Reinforcement Learning for Real-World Traffic Signal Control". Received 8/10 GPA, scientific paper in review
- Experience abroad: Extracurricular courses in computational vision and robotics at Instituto Superior Técnico Lisbon, Portugal
- Projects on: Robust Control, Optimization, Dynamic Programming, Model Predictive Control, Optimal Control, System Identification, Estimation Theory, Modeling of Dynamical Systems, Machine Learning for Control
- GPA: 8/10

### BSc Mechanical Engineering | Delft University of Technology

2017 – 2021

Delft, the Netherlands

- Thesis: Optimal Decentralized Control for Water Irrigation Networks
- Minor: Artificial Intelligence at the University of Amsterdam, Amsterdam
- Extracurricular: Editor/Writer for the quarterly student association Technology Magazine
- Societies: Student Tennis S.V.T.V. Tenniphil and Student Society K.S.V. Sanctus Virgilius

## SELECTED EXPERIENCE

### Researcher | Technolution BV

09 2023 – 12 2024

Gouda, the Netherlands

- Designed and implemented advanced traffic management algorithms in Python, including PPO, DQN, Model Predictive Control, and max-flow
- Performed in-depth research on state-of-the-art algorithms in Deep Reinforcement Learning for traffic optimization

### Prototype Engineer | YES!Delft Impact Labs

12 2024 – present

Delft, the Netherlands

- Prototyped AI solutions to streamline government subsidiary checks
- Engineered insulating panels to improve thermal efficiency

### Data Analyst | GATE Terminal

08 2021 – 01 2022

Maasvlakte, the Netherlands

- Analyzed pneumatic actuator valve data to optimize LNG terminal operations
- Earned VOL-VCA certification and conducted field inspections