KOEN CETON

Systems and Control Engineer

 Rotterdam, the Netherlands

Nationality: Dutch
Gender: Male

 www.linkedin.com/in/koen-ceton   koenc100.github.io/websitekoen/about.html

LANGUAGES

Dutch: Native

English: Profficient / 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