

Tristan Toye

toye.tristan.applications@gmail.com

Co-founder HydroTeam • R&D @ Imec • Best Delegate Award @Havard WorlMUN

LinkedIn • GitHub

AREAS OF EXPERTISE & CERTIFICATES

- Alumni Engineering Award – Team Leader
- Software architecture & Cloud development
- AI, ML & data-driven algorithms
- TOEFL score 116/20, Maternal tongue is Dutch
- Team management & Entrepreneurial mindset
- Awards @ OxiMUN, LiMUN & Harvard World MUN
- Python
- C#
- Rust

PROFESSIONAL EXPERIENCE

Imec – Internship & Thesis

R&D Compute System Architecture group

- Performance modelling of Autware.Auto stack for autonomous vehicles
- Profiling of CPU and NVIDIA GPU workloads in ML pipeline on Jetson Orin AGX

Leuven, Belgium

Remote

March '25 – Current

Cardio Flow Design

R&D Software engineering intern

- Cardiovascular segmentation algorithm in C# achieving 91% accuracy on IoU
- Advanced numerical algorithms such as SOR and Quadratic Spline Interpolation

Tokyo, Japan

Oct '23 – Aug '24

Technical advisor for the Nation Builder program

Program by the U.S. Department of State

- MVP deployed to Google Cloud with an Android and MacOS compatible app
- Was selected to compete at a global competition in the USA

Remote

Aug '23 – Oct '23

Manipal University of Jaipur

Academic research internship

- Comparative study on ML techniques for real-time object detection and tracking in video
- Implemented YOLOv3 Neural Network for performance evaluation

Jaipur, India

Aug '23 – Sep '23

Catholic University of Leuven

Researcher at STADIUS at the ESAT department

- Auditory Attention Decoding (ADD) with EEG data
- Linear model for stimulus reconstruction and unsupervised learning for decoding

Leuven, Belgium

Oct '22 – July '23

Twipe digital publishing, Data & AI

Summer intern & Student Software Engineer

- Automated pipeline for client-specific dashboard generation in cloud infrastructure
- On-demand data analysis on experiments and newspaper performance

Leuven, Belgium

Oct '22 – Jun '23

Jul '22 – Sep '22

EDUCATION

Master of Science in engineering: computer science – Magna Cum Laude

University of Leuven (KUL)

- Thesis project with the computer system architecture department of Imec
- Magna cum laude bachelor graduate – Entrepreneurial track @ Cronos – Class '23

Leuven, Belgium

Sep '24 – Jun '26

LEADERSHIP

Hydro Team – Hydrogen-fueled racecar @ 24u Le Mans '30

Co-Founder, Team Lead Electronics & Software

- Supervisor for 27 driven engineering students in cloud, control, communications & sensors
- Responsible for technological innovation, E&S partnerships and HydroTeam management

Leuven, Belgium

Jul '24 - Current

Model United Nations Society Belgium

Active Member

Belgium

Sep '22 – Jun '24