

ALEC WAUMANS

Industrial Computer Scientist

Personal Info

Email

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+32496704337

LinkedIn

www.linkedin.com/in/alec-waumans

Languages

- French - Native
- English - B2
- Spanish - A1

License

- CAR - B
- Drone - A1/A3

Hobbies/Interests

- Diving (Advanced SSI)
- Robotics Projects
- Travel / Photography
- Scouting

My Personal Site



I am passionate about embedded autonomous systems and computer science in general. I have just completed my Bachelor's degree in Computer Science, specialized in Industrial Development, at ESI (HE2B). My thinking, guided by logic and tenacity, drives me to tackle complex problems in the IT field while integrating easily into diverse work environments. I quickly acquire new skills and dedicate the necessary time to achieve my goals.

Education

- 09/2021 **Bachelor's degree in Applied Computer Science**
- 09/2025 *ESI (He2b) , Belgium*
- 10/2024 **Unity 3D Learn, Online Training**
Unity Essential
- 04/2025 **Cisco Networking Academy, Online Training**
additional introduction IoT and Python Training.
- 10/2025 **Coursera (University at Buffalo), Online Training**
(In progress) *MBSE: Model-Based Systems Engineering*
- 11/2025 **Coursera (Università Federico II), Online Training**
(In progress) *Specialization Autonomous Vehicle Engineering*

IT SKILLS

Softskills : Capella, StarUML, PLC/HMI programming(Siemens TIA), PyCharm, IntelliJ, Xcode, VisualStudioCode, SolidWorks, LabVIEW, CiscoPacketTracer, Scrum, QT6, Stäubli robotics, Unity, Linux, ROS.

Languages : Python, Java, HTML/CSS, SQL, C/C++, LaTeX, Git, Bash.

Keywords: Software Development, Embedded Systems, IoT, Full-Stack Development, Computer Vision, Machine Learning, Robotics, OpenCV, Deep Learning, Real-Time Programming.

Projects

AI Copilot for Aircraft Landing Operations
Autonomous Systems – Software Development

Hand tracking applied to humanoid robotics
Computer Vision Project & Robotics

Autonomous Electric Car
Autonomous Embedded Systems

FrozenLake (Q-Learning & Tabular Methods)
Machine Learning & Reinforcement Learning

UAV System for Safety Missions (In Progress)
Autonomous Systems & Robotics

Work History

- 02/2025 **Research Intern (Autonomous Systems & Aviation)**
- 08/2025 CIRA – Italian Aerospace Research Center

Publication

- 08/12 2025 **A Hybrid Architecture for Scene Understanding and Event Prediction in Aviation – RoboticCC 2025**