

Andrei Craciunas

Senior Software Developer & Team Lead

CONTACT

Iași, Romania
+40 751 851 584
andrei.craciunas@gmail.com

SKILLS

LANGUAGES

C++ 17/20 · Python

FRAMEWORKS

Qt & QML · Boost · OpenCV

TOOLING

CMake · Git · Docker · Linux · gRPC · MQTT · GTest & GMock · Clang-Tidy & Cppcheck · Valgrind · CI/CD

STANDARDS

MISRA · Automotive SPICE

METHOD & MODELLING

Agile & Scrum · Enterprise Architect

B2B CONTRACTS

Caterpillar Inc.

Senior C++ Developer · 3-month B2B · remote

Fleet tracking and inter-machine communication for heavy machinery fleets, improving operational efficiency.

UniCredit

Senior C++ Developer · 3-month B2B · remote

Internal platform supporting client stock trading and transaction processing.

EDUCATION

BSc, Economic Sciences

"Petre-Andrei" University, Iași

PROFILE

Senior C++ engineer with nearly a decade of experience building high-reliability software for automotive, defence, and industrial systems — AI-driven driver monitoring, autonomous drone control for defence applications, automated parking, and control interfaces for laser and waterjet cutting machinery. Specialises in safety-critical development under MISRA and Automotive SPICE, and leads teams that ship performant, maintainable code.

EXPERIENCE

Senior C++ Developer / Team Lead · Ness, Iași

Apr 2023 – Present

Two client engagements delivered under a single role at Ness, a software services company.

Defence & Unmanned Systems

Aug 2025 – Present

- Lead developer on control software for unmanned aerial systems and related defence applications
- Develop flight control, telemetry, and command-and-control software for drone platforms
- Design real-time inter-system communication layers using gRPC and MQTT
- Lead the development team — technical direction, code-review standards, and mentoring
- Build and maintain containerised development and deployment workflows with Docker on Linux

Automotive Interior Sensing

Apr 2023 – Aug 2025

- AI-driven cabin monitoring for a leading German automotive OEM, focused on occupant safety
- Driver state monitoring — detecting drowsiness and medical distress to prevent accidents
- Hands-on-wheel detection — reliable driver-engagement sensing for safe vehicle operation
- Out-of-position alerts — occupant posture monitoring with real-time safety warnings
- Delivered full documentation and unit & integration test coverage to Automotive SPICE standards

Senior C++ Developer · Camline, Iași

Apr 2021 – Apr 2023

Data analysis platform used across the automotive, semiconductor, and paints & coatings industries.

- Optimised statistical functions for large-scale datasets, improving analysis throughput
- Redesigned core technical workflows, improving system efficiency and user experience
- Built bespoke features and interfaces for enterprise client requirements
- Contributed to an in-house meta-language letting customers and engineers script complex analysis tasks

C++ Developer · Continental, Iași

Jul 2019 – Apr 2021

Low-speed assisted manoeuvring — automated and semi-automated parking systems.

- Delivered MISRA-compliant code, using Clang and Valgrind for static and dynamic analysis
- Expanded into DevOps — authored CMake and Python tooling for project structure and builds
- Supported Jenkins pipelines and Artifactory to streamline build and deployment
- Mentored junior developers moving from embedded C to modern C++ (C++11 and beyond) — OOP, design patterns, idiomatic practice

C++ Developer · Gemini CAD Systems, Iași

Oct 2016 – Jul 2019

- Developed touchscreen control interfaces for heavy industrial machinery
- Built 3D rendering applications using QML and QtWidgets
- Integrated CI/CD practices with Git, GitLab, and Jenkins
- Worked in a Scrum team using Jira for workflow tracking and collaboration