

Hello

I'm Oleksandr Tiutyk

Kharkiv, Ukraine, relocation is possible

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Summary

Industrial automation architect and software engineer with 24+ years of experience in software engineering, industrial automation, and control systems development. Focused on architecture design and development of PLC-based industrial automation platforms and machine control solutions using Beckhoff TwinCAT technologies.

Strong expertise in software architecture, object-oriented design, distributed and real-time systems, fault handling, and development of reusable automation frameworks.

Professional background includes the full software development lifecycle: requirements engineering, architecture design, implementation, testing, deployment, commissioning, and production support.

Started career in database and desktop application development using Borland Delphi and C++ Builder, later moving to .NET (C#) and then to PLC-based industrial automation systems development.

Actual skills

- industrial automation: Beckhoff TwinCAT, Structured Text, SFC, ADS, S7 Communication, OPC-UA, Motion Control, DB Server, Serial Communication, PID controllers
- dotNet: C#, WPF, Entity Framework Core
- data management: Microsoft SQL Server, SQL, Transact-SQL, JSON, MongoDB
- charts and reports: RDL, SQL Server Reporting Services
- vibe coding: developing JS and .NET applications with AI tools such as Cursor, Codex, Antigravity
- version control: Git
- languages: english (pre-itermediate)

Secondary skills

- data management: XML, FireBird SQL, SQLite, PostgreSQL
- Windows applications: WinForms, UWP, Entity Framework, WCF, ADO.NET
- charts and reports: PowerBI
- industrial automation: UML StateMachines
- AI and machine learning: ML.NET, n8n
- installs: Advanced Installer
- version control: SVN
- other technologies: Python, C, C++, Pascal, HTML, JavaScript

Own open-source projects

- TwinCAT Open Framework: object-oriented exception-based framework for TwinCAT 3.1.4026 and above
- link to the project: <https://github.com/trofimich/TwinCAT.OpenFramework>

Experience

june 2013 – now, Self-employed, Kharkiv

Development of applications for Windows, Windows RT, Windows IoT Core
Industrial automation development with using of Beckhoff PLCs

Used technologies

- for data management: Microsoft SQL Server, SQL, Transact-SQL, JSON, XML, MongoDB
- for Windows applications: C#, WPF, UWP, Entity Framework, Workflow Foundation, Web Services,

Windows Services, ML.NET

- for charts and reports: RDL, SQL Server Reporting Services, Power BI
- for IoT projects: C#, Windows IoT Core, Raspberry Pi, OPC-UA, UWP
- for industrial automation: Beckhoff TwinCAT, Structured Text, ADS, S7 Communication, OPC-UA, IO-Link, ProfiNet, Motion Control, Kinematic Transformation, DB Server, TwinCAT Visualization
- for installs: InstallShield, Advanced Installer
- for version control: Git, SVN
- for project management: Jira, Notion, Asana
- for web development: Cursor, JavaScript, TypeScript, AI
- for AI agents: n8n

august 2006 - may 2013, OstSoft, Kharkiv, Software Engineer

Development of various applications using the .NET Framework

Used technologies:

- for data management: MS SQL Database Server, SQL, Transact-SQL, Firebird Database Server, PSQL
- for Web: C#, Visual Basic, ASP.NET 2.0, JavaScript, HTML
- for Windows desktop/service: C#, WinForms, WPF, ADO.NET, Entity Framework, Web Services, WCF
- for charts and reports: RDL
- for installs: InstallShield
- for version control: SVN, CVS

may 2002 - august 2006, Leader Ltd, Kharkiv, Software Engineer

Development of the internal software for MLM (Multy Level Marketing) company

Used technologies:

- for data management: Firebird Database Server, PSQL
- for Windows desktop: Borland Delphi, Borland C++ Builder
- for charts and reports: FastReports

june 2001 - may 2002, Global Ltd, Kharkiv, Software Engineer

Development of automated workplaces

Used technologies:

- for data management: Borland Interbase Database Server
- for Windows desktop: Borland Delphi, Borland C++ Builder

Education

September 1997 - June 2003

National Technical University "Kharkiv polytechnic Institute", Kharkiv – Master

Received a master's degree in the specialty "System Programming"

About me

46 years old. Married. Have small daughter. Like Off-roading, organizer and participant of off-road trips and competitions, like traveling, mushroom hunting, active OpenStreetMap editor.

I am considering the possibility of remote work on specific projects, as well as projects that require visiting or relocating to another country.