CURRICULUM VITAE - LUKANOWSKI.INFO

Michal Lukanowski



Control Systems, Automation and Software Engineer

Full-cycle PLC and SCADA programming, custom software engineering, and system integration.

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Portsmouth, United Kingdom

For over 15 years, I have delivered critical automation projects nationally and internationally across multiple sectors, providing complete lifecycle delivery from design through to on-site commissioning of PLC, SCADA, and custom software.

Experience

Consultant Software Controls Engineer — Jul 2023 – Present

Actemium Automation · Contract · Portsmouth, United Kingdom

Engineered and commissioned control systems for semiconductor fabs by integrating multi-platform PLCs (CODESYS, Straton, Mitsubishi) and .NET/Docker HMIs with field devices via Modbus, CAN, Ethernet, Serial, and OPC.

Developed and commissioned full-cycle PLC, SCADA, and telemetry architectures across 15+ distributed sites, deploying the complete Rockwell Automation stack alongside ProSoft modules, AVEVA System Platform, InTouch, and ICONICS.

Project: Hydrogen Recovery System (Straton, .NET, Rockwell, Serial, CAN)

A dual-PLC control architecture programmed with Straton and a specially built .NET HMI. Successfully integrated wide range of field devices, establishing communications with Rockwell drives, serial power supply units (PSUs), and CAN-networked voltage scanners.

Project: Water Treatment PLC upgrade (ControlLogix, CompactLogix, PanelView, Profibus, DLR)

A site-wide control upgrade, replacing legacy systems with a 6-rack Allen-Bradley ControlLogix architecture on a DLR ring. Developed complex well and force pump sequencing, automated "Run to Waste" processes, and integrated distributed chemical dosing skids via Profibus DP/PA, CompactLogix PLCs, and PanelView HMIs.

Senior Software Engineer — Apr 2022 – Jul 2023

ICONICS UK · Contract · Birmingham, United Kingdom

Utilised the full range of ICONICS software platforms to deliver SCADA projects across multiple industrial sectors. Supported delivery and commissioning of new smart building solutions.

Project: Smart Building & Workplace Integration (IBSS, GENESIS64)

An advanced smart building solution utilising the ICONICS Intelligent Buildings Software Stack (IBSS) and GENESIS64 platform for a premier commercial tower. Unified traditional Building Management Systems (BMS) with smart office functionality, integrating HVAC, lighting, access control, and real-time space utilization tracking into a centralized digital twin dashboard to optimize energy efficiency and tenant experience.

Software Controls Engineer Sep 2012 – Jul 2023

Cougar Automation · Portsmouth, United Kingdom

Developed and commissioned end-to-end control system software for clients in a variety of sectors, including manufacturing and highly regulated industries. I drove the technical execution of these projects by programming PLCs and industrial comms networks, conducting comprehensive FAT/SAT testing, and collaborating with multi-disciplinary teams during final on-site commissioning.

Project: Extreme Ultraviolet (EUV) Vacuum Pump Systems (Straton, .NET)

A fully redundant, highly reliable control architecture utilizing a network of 12 Straton PLCs paired with a custom-developed .NET HMI. Commissioned the final systems on-site at advanced semiconductor fabs across Japan, South Korea, and Taiwan.

Project: UK-Wide Landfill Gas Generation System (Beckhoff, ICONICS GENESIS64)

A large scale remote operations solution consolidating data from 100+ Beckhoff PLCs and diverse gas-burning engines into a centralized ICONICS GENESIS64 SCADA platform. Built enterprise dashboards to provide complete remote site control, video surveillance integration, and automated system-wide KPI generation to optimize power output.

Software Support Engineer Jun 2009 – Sep 2012

ICONICS UK · Birmingham, United Kingdom

Served as a dedicated support engineer for ICONICS SCADA products, rapidly diagnosing and resolving complex technical issues for global clients.

Technical

Platforms and protocols used on commissioned work.

PLC

- Rockwell Automation
- Beckhoff
- Mitsubishi
- Straton
- CODESYS

SCADA & HMI

- FactoryTalk View ME & SE
- AVEVA System Platform & InTouch
- ICONICS GENESIS64
- Beijer iX

PROGRAMMING

- SQL
- C#
- VB .NET
- Python
- Java
- JavaScript
- HTML
- Docker

CONNECTIVITY

- Kepware
- Modbus
- CAN
- Profinet
- Serial
- OPC
- ProSoft

Qualifications

University of Wolverhampton

BSc (Hons) Computer Science (Software Engineering)

2007 – 2011

Industrial placement at ICONICS UK

CCNSG Safety Passport

Expires Dec 2027

Member

Institution of Engineering and Technology

Sep 2012 – Present