







Michal DUDEK, MSc, PMP
Project Manager, SRE, Software Engineer

 www.dudek.tech
 /in/dudek-michal/
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Curriculum Vitæ

Personal Profile

A project manager who's able to assimilate large quantities of information, identify the key issues and organize a clear strategy and transform it into goals and objectives within the team. A valuable member of an organization, focused on achieving results in highly pressurized, challenging and international working environments.

An open-minded engineer with a broad knowledge of site reliability engineering, software engineering, modern IT solutions and a large-scale, high-availability, distributed control systems. Has 9 years of experience in the design, development and maintenance of software, hardware and IT infrastructure for a real-time and industrial control systems running 24/7 operations. Committed, organized and conscientious, providing quality results. General manner problem-solver who instigates and promotes changes as an opportunity for constant improvement of the systems. Produces workable and timely solutions that conform to requirements.

Professional Experience

2013 – 2018 **Project Manager & Site Reliability Engineer, CERN, Switzerland**
Technology Department, Electrical Power Converters Group

Project management:

- > gathering high-level information on the project;
- > defining project objectives, key deliverables and measurable success criteria;
- > identifying stakeholders and capturing their needs, constraints and expectations;
- > performing functional analysis of requirements for the new control systems;
- > determining development approach and developing project management plan;
- > directing and managing controls related projects (software, hardware, infrastructure);
- > managing budget, procurement and contracts;
- > ensuring quality, security and safety;
- > coordinating work of teams, monitoring and controlling progress;

Team management:

- > driving continuous improvements to the engineering workflow;
- > deploying, configuring and integrating team management and software development tools;

Software development and control systems engineering:

- > defining systems design;
- > selecting proper software & hardware solutions;
- > determining appropriate implementation strategy;
- > deciding on pertinent documentation approach;
- > defining test policies and establishing procedures;
- > developing, deploying, configuring, integrating and commissioning control systems;
- > disseminating knowledge and informing others of the practices to be implemented;

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Professional Experience (continued)

Maintenance & 24/7 operational support for the critical high-availability systems:

- › maintaining 2500+ production control systems;
- › configuring, integrating and maintaining 35 GNU/Linux production servers;
- › driving continuous improvements of the existing systems;
- › developing, deploying and integrating software tools for infrastructure management;
- › providing user support, technical expertise and advice;

2010 – 2013 **Software Engineer & Control Systems Engineer, CERN, Switzerland**
Technology Department, Cryogenics Group

Software development and control systems engineering:

- › designing software & hardware architecture;
- › developing, deploying, configuring, integrating and commissioning control systems;
- › automating repeatable tasks with software tools;
- › incorporating continuous integration (CI) system into software development workflow;

Education

2005 – 2010 **AGH University of Science and Technology, Cracow, Poland**
Faculty of Electrical Engineering, Automatics, Computer Science and Electronics
Master of Science in engineering (M.Sc.Eng.): Electrical Engineering, Computer Engineering for Industrial Applications

Projects

2014 – 2018 *Software enhancements and modern monitoring solutions for a large-scale, high-availability distributed control systems at CERN*

My mandate as a technical leader of a project, site reliability engineer and a senior software engineer at CERN was to maintain C++ real-time software for a large-scale, distributed control systems for 2500+ power converters running 24/7 operations. The responsibilities included software upgrades based on the analysis of requirements of the machines operation team, as well as integration, configuration and maintenance of 35 GNU/Linux production servers. The objective of the project was to increase the availability of the machines, eliminate the errors experienced by the on-call service and implement modern monitoring solutions based on the Elasticsearch stack and Grafana. As a result, the reliability of the complex increased by 20%.

Project Management Strategic Planning Technical Leadership Site Reliability Engineering Software Engineering

Large Scale High Availability Distributed Systems Critical Infrastructure Complexity Technology Testing

Knowledge & Skills

Personal Qualities

Leadership Management Multitasking Communication Negotiation Active Listening Emotional Intelligence Patience

Problem Solving Analytical Reasoning Critical Thinking Attention to Detail Perseverance Teamwork Cultural Awareness

Computer Science, Electronics and Controls

GNU/Linux Bash C/C++ PHP SQL Data Structures Big O HTML JSON XML CSS GIT SVN

Systems Design Networking Back-End Nginx Jenkins ELK stack Grafana MariaDB JIRA Matlab

Embedded Systems Siemens PLCs Profibus Profinet SCADA WinCC-OA UNICOS FESA

Languages

Polish (native) English (fluent) French (elementary) German (elementary)