

# Ing. Jiří Fůsek

## Basic information

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<http://www.valatron.cz/>



## Work experience

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**09/2015 - present**

**Valatron s.r.o.**

*Founder & Senior C# .NET developer - SW architect*

*Senior industrial automation developer - PLC architect*

Developer in the field of IT and industrial automation.

**05/2011 - 09/2015**

**On Semiconductor s.r.o.**

*Senior C# .NET developer - SW architect*

*Senior industrial automation developer - PLC architect*

Equipment integration to the company's internal systems. Control software development for production lines using C# .NET and Silverlight 5.0/WPF for visualization. Software development intended for data collection from production equipments.

**03/2011 - 05/2011**

**Brose CZ spol. s r.o.**

*Industrial automation developer*

Optimization of the automation in production environment. Control software development for production lines. Working with ABB robots.

**11/2010 - 03/2011**

**Elekt Labs s.r.o.**

*Industrial automation developer*

Programming PLC SIEMENS for customer needs related to planning, optimization, and data collection in production environment. Development kit used from the manufacturer.

## Education

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**09/2008 - 06/2010**

**Tomas Bata University in Zlín**

*(Ing.) Software Engineering - Information Technology*

As the diploma thesis was implemented automation software for the dedicated device, which controls the tests of the thermoplastic pipes, their resistance to wear. PLC MITSUBISHI has control over the water supply circle and process visualization on the touchscreen was implemented in Control Web 6.

**09/2005 - 06/2008**

**Tomas Bata University in Zlín**

*(Bc.) Software Engineering - Information Technology*

As the bachelor thesis was implemented desktop application in C/C++ working with graphical formats GIF and PNG in load, display and persist mode.

**09/2001 - 06/2005**

**SPŠE Rožnov pod Radhoštěm**

*Electronic Computer Systems*

As the final project was realized pulse battery charger for motor vehicles for common usage.

## Skills in technologies | Languages

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|            |                                |       |
|------------|--------------------------------|-------|
| General:   | Object-oriented programming    | ★★★★★ |
|            | Design patterns                | ★★★★★ |
|            | Unit + Integration tests (Moq) | ★★★★★ |
|            | IoC/Dependency Injection       | ★★★★★ |
|            | C# .NET                        | ★★★★★ |
| Microsoft: | C/C++                          | ★★★★★ |
|            | Visual Studio 2015             | ★★★★★ |
|            | Entity Framework               | ★★★★★ |
|            | MS SQL Server 2012, 2014, 2016 | ★★★★★ |
|            | WCF, WPF, Windows Forms        | ★★★★★ |
|            | SignalR                        | ★★★★★ |
|            | Silverlight + XAML + MVVM      | ★★★★★ |
|            | DI (Castle Windsor)            | ★★★★★ |
|            | ASP.NET Web Forms, MVC         | ★★★★★ |
|            | ASP.NET Web API                | ★★★★★ |
|            | TeamCity / Mercurial / SVN     | ★★★★★ |
|            | TFS 2015 + SCRUM               | ★★★★★ |
|            | Windows Server 2012 R2 + IIS   | ★★★★★ |
|            | Windows PowerShell v3, v4, v5  | ★★★★★ |
| Others:    | Orientation in UML             | ★★★★★ |
|            | Enterprise Architect           | ★★★★★ |
|            | Oracle + MySQL + PostgreSQL    | ★★★★★ |
|            | DevExpress                     | ★★★★★ |
|            | HTML & CSS                     | ★★★★★ |
|            | JavaScript & TypeScript        | ★★★★★ |
|            | jQuery & Knockout              | ★★★★★ |
|            | AngularJS                      | ★★★★★ |
|            | Bower / Grunt / Gulp           | ★★★★★ |
|            | Linux Ubuntu 14.XX             | ★★★★★ |
|            | Ansible                        | ★★★★★ |
|            | Visual Studio Code             | ★★★★★ |



|             |                            |       |
|-------------|----------------------------|-------|
| Automation: | Programming SIEMENS PLC    | ★★★★★ |
|             | Programming MITSUBISHI PLC | ★★★★★ |
| Languages:  | English                    | ★★★★★ |
|             | Czech                      | ★★★★★ |

## Awards

15.12.2013

### ON Semiconductor Award 2013

*On Semiconductor Czech Republic, s.r.o.*

For implementation of the control and visualization software related to production line producing polished silicon wafers assembled by ON Semiconductor Czech Republic Ltd., I am as main programmer of the system, along with other colleagues (IT, service team, technology) involved in the whole solution, received award from the director of production for the successful realization of project and system development.



## Training and Courses

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- 04.08-04.08/2016** **ASP.NET Core 1.0 on any OS with** John Papa and Shayne Boyer  
*Course (Pluralsight)*  
Get up to speed with the new features of ASP.NET Core 1.0 as expert Shayne Boyer develops an app from scratch.
- 25.07-25.07/2016** **ASP.NET Core 1.0 Fundamentals**  
*Course (Pluralsight)*  
This course provides everything about techniques how to start building first ASP.NET Core application with the MVC framework.
- 19.06-19.06/2016** **Architecting Applications for the Real World in .NET**  
*Course (Pluralsight)*  
This course discusses when abstractions are justified and outlines the merits of various approaches for structuring applications.
- 19.06-19.06/2016** **What's New in PostSharp v3**  
*Course (Pluralsight)*  
This course is about the features that were added to PostSharp v3 and how they will impact in existing aspects.
- 15.06-15.06/2016** **ASP.NET MVC Advanced Topics**  
*Course (Pluralsight)*  
This course covers more advanced topics in ASP.NET MVC including Ajax, TDD, and best practices.
- 18.05-18.05/2016** **Best Practices in ASP.NET: Entities, Validation, and View Models**  
*Course (Pluralsight)*  
In this course, Shawn Wildermuth shows the best practices for using entities, validation, and view models.
- 13.04-13.04/2016** **Automated Web Testing with Selenium**  
*Course (Pluralsight)*  
The course introduces how to use Selenium to write tests for web apps and how to create a basic web application testing framework.
- 04.04-04.04/2016** **SpecFlow Tips and Tricks**  
*Course (Pluralsight)*  
The course introduces how to create more maintainable SpecFlow test automation solutions.
- 01.04-01.04/2016** **Automated Acceptance Testing with SpecFlow & Gherkin**  
*Course (Pluralsight)*  
This course covers how to create business-facing acceptance tests in natural languages in Visual Studio and .NET.
- 25.03-25.03/2016** **Automated ASP.NET MVC Testing: End to End**  
*Course (Pluralsight)*  
This course covers what kind of tests to implement at each level of ASP.NET MVC application, and how to run them using the TeamCity.
- 17.02-17.02/2016** **Raspberry Pi for Developers**  
*Course (Pluralsight)*  
This course is an introduction to the Raspberry Pi platform.

- 30.12-30.12/2015**    **Advanced Tools & Scripting with PowerShell 3.0**  
*Course (Microsoft Virtual Academy)*  
The course provides information how to turn real time management and automation scripts into useful reusable tools and cmdlets.
- 27.12-27.12/2015**    **Getting Started with PowerShell 3.0 Jump Start**  
*Course (Microsoft Virtual Academy)*  
The course shows how to use PS to improve management capabilities, automate redundant tasks, and manage the environment in scale.
- 03.12-03.12/2015**    **Cross-Platform Development with Xamarin & VS**  
*Course (Microsoft Virtual Academy)*  
The course provides information how to share as much as possible C# code across iOS, Android, and Windows Phone platforms.
- 07.11-07.11/2015**    **Get Started with Windows Azure Today Jump Start**  
*Course (Microsoft Virtual Academy)*  
The course includes basic overview of features and capabilities of application development for Windows Azure platform.
- 06.11-06.11/2015**    **Windows Azure SQL Database**  
*Course (Microsoft Virtual Academy)*  
The course provides overview of Windows Azure SQL Database and show how to create and work with SQL DB for common scenarios.
- 04.11-04.11/2015**    **SQL Server in Azure VM's Developer Jump Start**  
*Course (Microsoft Virtual Academy)*  
The course contains information how to build and deploy applications running SQL Server in Azure Virtual Machines.
- 01.11-01.11/2015**    **The Modern Web Platform Jump Start**  
*Course (Microsoft Virtual Academy)*  
The course introduces latest capabilities and features available in HTML, CSS, JavaScript and Web API.
- 21.10-21.10/2015**    **Single Page Applications with jQuery or AngularJS**  
*Course (Microsoft Virtual Academy)*  
The course describes advantages of jQuery and AngularJS to dynamically update HTML5-based apps.
- 18.10-18.10/2015**    **What's New with ASP.NET 5**  
*Course (Microsoft Virtual Academy)*  
The course highlights the newest open source web framework from Microsoft for building modern web apps on Windows, Linux, and Mac.
- 17.10-17.10/2015**    **Creating Dynamic Webpages with Knockout**  
*Course (Microsoft Virtual Academy)*  
The course describes data binding and clear separation between logic and user interface using Knockout JavaScript library.
- 04.10-04.10/2015**    **Introduction to AngularJS**  
*Course (Microsoft Virtual Academy)*  
The course introduces basic overview and functions this Super-heroic JavaScript MVW framework.

- 31.05-31.05/2015**    **Developer Productivity: What's New in C# 6**  
*Course (Microsoft Virtual Academy)*  
The course deals with new features C# programming language leading to a more efficient application development.
- 30.05-30.05/2015**    **Administering Visual Studio TFS 2012 Jump Start**  
*Course (Microsoft Virtual Academy)*  
The course includes the information needed for administration Team Foundation Server (TFS).
- 02.02-02.02/2015**    **Developing Web Apps with ASP.NET Web Forms 4.5**  
*Course (Microsoft Virtual Academy)*  
The course describes the new development techniques coming with ASP.NET Web Forms 4.5 and MS Visual Studio 2012.
- 25.12-25.12/2014**    **Real-Time Web Communications with SignalR**  
*Course (Microsoft Virtual Academy)*  
The course describes the development of real-time web applications with bi-directional communication (server/client) using SignalR.
- 21.12-21.12/2014**    **Programming Robotic Systems with Visual Studio**  
*Course (Microsoft Virtual Academy)*  
The course shows examples of programming Arduino microcontroller.
- 20.12-20.12/2014**    **Introduction to ASP.NET MVC**  
*Course (Microsoft Virtual Academy)*  
The course shows how to use an MVC framework for Web apps.
- 20.03-21.03/2014**    **Parallel & asynchronous applications in C# .NET**  
*Training (GOPAS - Prague)*  
The training for advanced developers looking for an opportunity to gain knowledge in the field of parallel and asynchronous applications.
- 25.11-27.11/2013**    **Design patterns in C# .NET**  
*Training (GOPAS - Prague)*  
The training for usage design patterns in analysis, architecture, design, programming, refactoring, debugging and testing.
- 04.07-06.07/2013**    **C# language - advanced techniques**  
*Training (PC-DIR - Brno)*  
The training for experienced developers who want to use C# and all the advantages that the Microsoft .NET platform provides.
- 12.03-14.03/2012**    **WCF in MS Visual Studio 2010**  
*Training (GOPAS - Prague)*  
The training for developers who want to learn how to develop distributed applications using WCF 4.0 and MS Visual Studio 2010.
- 30.05-03.06/2011**    **Programming with Microsoft C# .NET**  
*Training (GOPAS - Prague)*  
The training is intended for all programmers who want to gain knowledge and skills in creating applications in C# .NET.
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## Driving license

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### License type

Motor vehicle driving license categories  
AM/A1/B1/B.

Own business license in software development, consulting in filed of information technology, data collection and processing, web portals, hosting and related activities.

### Interests

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Sport - endurance running, fitness, yoga, swimming, cycling and skiing.

Technology - PC, development, (micro)electronics and automation.

### Something about me in words

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I'm a developer specializing in software development for the Microsoft .NET platform. I'm among technology enthusiasts in the industry, who like to try new things leading to greater efficiency and optimization of the processes. Within the implementation of the projects I also have experience in mentoring junior programmers or with the management of the entire development team as well as with working on a product on my own from the initial analysis to handing over the final solution to the customer. My knowledge and "know-how" is constantly expanding through training sessions, conferences and seminars organized by companies or developer community. These newly obtained informations are used in the concrete implementation of solutions designed for the customer. This is essential for customer which gets a product based on the latest technologies available on the market in the required quality. Implementation itself consists of customer requirements analysis, solution design, implementation and subsequent testing. After a successful UAT (user acceptance test) is the final product handed to the customer including possible support according to agreed terms. Besides the "greenfield" development I'm also able to make adjustments in existing systems implemented by other vendors. If you are interested, I can provide training on Microsoft .NET technology to internal employees of your company or other consulting and advisory services.

In addition to technology in the field of software development I'm also interested in technology related to the development of renewable energy sources. I am a supporter electrification in the automotive industry or transport in general. The biggest celebrities, visionaries and innovators of recent years are for me Steve Jobs or Elon Musk.