# CV Frank Mehlhop

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# Software projects

| 02/2022 to now | Browser and native applications for session management. |
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**C#, Angular, Blazor, Maui, MS-SQL, ELasticsearch, Rest-Api**

Maintaining an existing Angular application, creating a new Angular application, creating a Blazor application, creating a Maui application

| 03/2021 to 01/2022 | Equipment Integration for Semiconductor Industry / Infineon |
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**C#, SECX standard and interfaces, ..**

Create couplings between wafer processing equipment and the control system.

| 01/2021 to 02/2021 | Creation of a browser application |
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**C#, Angular, MS-SQL**

Creation of a project with C# and Angular Frontend for the the automotive sector. Connection to MS-SQL and use stored procedures.

| 11/2019 to 12/2020 | Creation and maintenance of various websites |
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**Wordpress, html, css, various plugins, MySQL**

Various websites had to be updated and
new ones with the CMS Wordpress had to be created or migrated.
A login page was created.

02/2019 to 10/2019    A software house with main focus on databases in Dresden.

**REST API's with C#, using .NET Core 2.2 with LDAP-Authentification via Token, Oracle db, Elasticsearch, MS Active Directory, Docker, RabbitMQ, Git, LDAP, Win10 (development), Linux (productiv), Visual Studio**

Realisation of a project for a semiconductor manufacturing supplier. Different devices and machines deliver continiously lots of data like temperature and pressure. This data needs to be sorted and saved in realtime throu different Rest interfaces. On the otherside we provide Rest interfaces for getting and analysing the data.

03/2018 to 10/2018    At a large auditing company in Berlin
This company mainly provides financial advice
and is represented worldwide.

**Intranet application in C#, .NET and JavaScript (also Angular 6, Draw.io, Azure, REST API, Visual Studio Code and more)**

Development of a intranet application for managing custumer projects in a financial consultation environment.
My part was mainly frontend development until REST API.

05/2017 to 10/2017    Carl Zeiss Microscopy GmbH in Munich
Part of optical industries,
specialist for high-resolution microscopes

**Desktop application for Windows PC in C# (with WPF and .NET, Visual Studio 2015 and TFS).**

Development and optimization of a wizards for fine adjustment of parameter to generate high-resolution images of tissues with brightfield- / fluorescence microscope.
(for Device Carl Zeiss Axio Scan.Z1)

11/2016 to 12/2016    markenbuero GbR in Dresden
Design and advertising agency.

**Desktop applications for Windows PC in C# (with .NET and WPF with MS Visual Studio 2015).**

Development of a GUI according to extremely detailed design specifications. Software  designed for application in pharmaceutical production in cleanroom environments.

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| 08/2016 to 01/2017 | GeSiM mbH in Rossendorf near Dresden<br>Instrumentation and microfluidics for microarraying, 3D bioprinting, complex material handling at the microscale.<br><br>**Optimization of an existing desktop application for Windows PCs in C# (with .NET and WPF with MS Visual Studio 2015, SVN, VPN).**<br><br>Integration of camera control into the existing software of a bio printer. The camera can be physically moved and images are displayed live on a screen. Drops are automatically detected and their volume calculated. Results are displayed and a report is generated and saved. |
| 12/2013 to 07/2016 | GeSiM mbH in Rossendorf near Dresden<br>Instrumentation and microfluidics for microarraying, 3D bioprinting, complex material handling at the microscale.<br><br>**Project manager for development of desktop-application for Windows-PCs in C# (with .NET and WPF with MS Visual Studio 2013 and 2015, SVN, VPN for robot steering).**<br><br>Supervised three team members. Development of an extensive and extremely complex steering system for cleanroom laboratory equipment. Project cycle management, software architecture, software development, GUI design, product testing, managing customer relations. Included developing several user interfaces, data processing, data storage, and data display for two sets of equipment: a 3D scaffolder for printing human organs (bones, skin and veins), and a fully automated precision synthesizer for pharmaceutical usage (picoliter-scale volumes and μm-scale movements). |
| 07/2013 to 11/2013 | NASSENHEIDER e.K. in Dresden<br><br>**Android application for tablets with JavaEE (Eclipse und JDK).**<br><br>Development of a touchpad-driven machine steering for automated honey processing machinery. |
| Two phases:<br>02/2012 to 05/2012 and<br>08/2012 to 11/2012 | Fraunhofer Institut IVI and ADAC in Dresden<br>Fraunhofer Institut is a German research organization with 72 institutes spread throughout Germany.<br><br>**Android App for smartphones with JavaEE (Eclipse, JDK, SVN).**<br><br>Data collection and analysis to detect motorway traffic jams via device-integrated g-Sensor. Integration of mathematical algorithms into software. |

08/2011 to 11/2011     Fraunhofer Institut IVI and John Deer agricultural machinery in Dresden. Fraunhofer Institut is a German research organization with 72 institutes spread throughout Germany.

**Android App for smartphones with JavaEE (Eclipse, JDK, SVN).**

Developing gesture control and motion-driven steering for smartphones.

# Website projects

since 2007            Examples of completed website projects can be found on my
                      website: www.mehlhop.com

# Education

02/2011 – 02/2013     Vocational training as IT Specialist for application development
                      with practice at Fraunhofer Institute for Transportation and
                      Infrastructure Systems IVI (Java, Android),
                      degree as Computer Science Expert, Subject area: Software
                      Development

09/1992 – 06/1999     University studies in sociology and Indian art history
                      (Freie Universität Berlin, Technische Universität Berlin)

07/1992               High school diploma
                      with additional technical training cvomponent

since 1987            Doing programming (Basic, Atari XE)

# Skills

| C#   | Angular            | HTML       | Oracle db     |
|------|--------------------|------------|---------------|
| .NET | Blazor             | PHP        | Elasticsearch |
| WPF  | Maui               | JavaScript | RabbitMQ      |
| REST | Visual Studio Code | TypeScript | Docker        |
|      | Visual Studio      | CSS        |               |
|      |                    | Bootstrap  | git           |
|      |                    |            | SVN           |
|      |                    |            | TFS           |
|      |                    |            | DevOps        |