



Curriculum Vitae

Born 1972 January 25 in Mödling (Lower Austria).

Nationality Austria

Family Status married, 2 brothers

General Education

1991	School leaving examination (A-levels) in technical optics, mechanic, machine tools and English.
1986 – 91	Mechatronics and Precision Technics - Federal Secondary College of Engineering (HTBLuVA Mödling)
1978 – 86	Primary and Grammar school in Perchtoldsdorf, Austria

Work Experience

2024-2025	Freelancer as mechanical design engineer for AWG Fittings GmbH (Germany) Tasks: Development of cabling system for a model range of extinguishing monitors, development of control cabinets for stationary extinguishing monitors. Software: Solid-Edge, MS-Office 95% home office with own software licenses, Client: Ferchau GmbH
2024-2025	Freelancer as mechanical design engineer for MFtec GmbH (Austria) Tasks: Development and mechanical design of an inverter module for Siemens Mobility in IGBT architecture for railways (Athens Piraeus Electric Railways) Software: Solid-Edge, MS-Office 100% home office with own software licenses
2024	Freelancer for Erwin Hymer Group SE (Germany) Tasks: Pretests and Performance tests for Solid Edge 2024 update and CIM database PLM system update to identify and solve software bugs. Software: Solid-Edge, MS-Office, CIM Database 100% home office over VPN; Client: SOLCOM GmbH
2023	Freelancer for AIT - Austrian Institute of Technology (Austria) Tasks: Mechanical design of a demonstrator for a Megawatt Charging System over 20kV medium voltage for project MEDUSA as cabinet design. Software: Solid-Edge, MS-Office 100% home office with own software licenses
2023	Freelancer as mechanical design engineer for AEG Power Solutions GmbH (Germany) Tasks: Mechanical Engineering of Uninterruptible Power Supplies in cabinet design (Protect 4, Protect 8) for Critical Power Applications. Software: Solid-Edge, MS-Office, SAP S/4HANA 90% home office over VPN; Client: Amoria Bond GmbH
2022-2023	Freelancer as mechanical design engineer for Kampf Schneid- und Wickeltechnik GmbH & Co KG (Germany) Tasks: Development of cabling system for winding stations, Development of automatic horizontal bonding of new material for winding.

	<p>Software: Solid-Edge, MS-Office, CIM Database 100% home office over VPN; Client: Ferchau GmbH</p>
2021	<p>Freelancer as mechanical design engineer for MFtec GmbH (Austria) Tasks: Development and mechanical design of a battery charging device for Siemens Mobility in IGBT architecture for railways (Athens Piraeus Electric Railways) Software: Solid-Edge, MS-Office 100% home office with own software licenses</p>
2019	<p>Freelancer as mechanical design engineer for Z-Laser GmbH in Freiburg (Germany) and MFtec GmbH (Austria) Tasks: Development and mechanical design of three different calibration stations for partly automated alignment and calibration of mirrors using precision mechanics to manufacture MEMS Laser systems. Mechanical stress analysis and simulation. Software: Solid-Edge, MS-Office 100% home office with own software licenses; Client: Hays AG</p>
2017	<p>Freelancer as mechanical design engineer AIT - Austrian Institute of Technology (Austria) Tasks: mechanical design of an enclosure for a prototype in GaN semiconductor architecture. Software: Solid-Edge, MS-Office 100% home office with own software licenses</p>
2016-2022	<p>Freelancer as mechanical design engineer Völker GmbH und Hill-Rom Witten (Germany) Tasks: Collaboration for technical knowledge transfer for moving a production line of motors and handheld remote devices, mechanical design and development of acute care and long-time care beds, collaboration for requirement specification. Development of mechanical concepts and designs until ready to go into production, support for prototype construction. Mechanical stress analysis and simulation. Quantity >5000/year, Software: Solid-Edge, MS-Office, MechWorks DB-Solid >95% Remote-work, since 2020 100% home office with own software licenses</p>
2015-2020	<p>Freelancer as mechanical design engineer for iT-Stranz GmbH (Austria) Tasks: Pneumatic automation projects for Constantia Company (specialized in sheet printings in dust-free rooms for medicine and food industry) Mechanical design of custom-made stainless-steel pools. Software: Solid-Edge, MS-Office</p>
since 2012	<p>Freelancer for Hays Austria GmbH and Ferchau Engineering GmbH as specialist for Engineering and Development.</p>
2010-2015	<p>Freelancer as mechanical design engineer for Siemens AG Austria in the following roles: Mechanical architect, Project manager part mechanic, Bill of materials manager. Projects: THYRIPOL3 (Static Excitation System for turbines in IP32 and IP43, Voltage up to 950V, Excitation current up to 7700A, redundant Control and Power-Units, Development of more than 200 customer options in 30 basis types i.e., "repair during operation" – all cabinet design) SINAMICS AIM LC (water-cooled filter for converters in cabinet design) Tasks: Collaboration for requirement specification.</p>

	<p>Development of mechanical concepts and design until ready to go into production and ready to go to engineering group, support for prototype construction. Quantity >50-100/year Supervisor for up to three mechanical design engineers.</p> <p>Software: Solid-Edge, MS-Office, Teamcenter Appr. 80% in own office with own software licenses Client: Hays AG (2012-2015)</p>
2010	<p>Update of Visual Basic program „Sadovsky-Schriftkopf“ for Excitation System engineering team. A program to fill in all required draft fields for manufacturing drawings and to change background templates automatically.</p>
since 2009	<p>Business license for organizing seminars and animal trainer. Founding „Happy-Fellow Dogschool“ in collaboration with spouse.</p>
since 2008	<p>Business license for trading, brand recognition „Happy-Fellow®“, Founding pet shop – „Happy-Fellow Dogshop“ in collaboration with spouse.</p>
2007-2010	<p>Designing a new range of electronic power converter from 1200A to 3000A for SIEMENS AG Austria in the project SIMOREG 6RA80 (DC power converter) and a liquid cooled converter for wind turbines for LOHER company. Tasks: Development of mechanical concepts and design until ready to go into production; support for prototype construction. Quantity >500/year Software: Solid-Edge, MS-Office</p>
2004-2006	<p>Assignment in Erlangen (Germany) as mechanical design engineer for Siemens AG Designing a new range of electronic power converter for SIEMENS in Erlangen (Germany) in the project SINAMICS MEGAMASTER LC (liquid cooled power converter) to the end of Research and Development phase including start of production phase in Austria at SIMEA. Software: ProEngineer-Wildfire, MS-Office</p>
2003	<p>Coding of Visual Basic program „Sadovsky-Schriftkopf“ as add-on for CAD program environment Solid-Edge Draft.</p>
1996-2004	<p>Freelancer as mechanical design engineer for: Siemens AG in different factories (GWW, EWW, MWW, SIMEA) Development projects until production: - SIMOREG 6RA24 and 6RA70 (Converter for DC Drives) - MASTER DRIVES (Power converter) - OCP (Over-Current-Protector in IGBT architecture) Kiepe Electric (climate devices for local public transport) LEM Norma (mechanical design for a measurement device) Prutscher GmbH (development for an installation module for prefabricated houses)</p>
since 1996	<p>Business license for drafting office and services in IT. Engineer in Mechatronics and Precision Technics, granted by Federal Ministry of Science, Research and Economy</p>
1995-1996	<p>Company Technician at United Cinemas International Multiplex GmbH</p>
1991-1994	<p>Engineer Ing. Ernst Steiner Company projects for the following companies: - Philips – Development Automation VCR Drive „Turbo Drive “</p>

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- Siemens AG – device development „Sikostart“
- Elin – Development traction converter for ULF, Porsche design ultra-low floor tram for Vienna
- Philips – development for fax machines

Further Education / Certificates

2013	Grant EUR ING by European Federation of National Engineering Associations (FEANI)
2011	5-day CAD training course NX 7.5 – ACAM Systemautomation GmbH
2010	Training CAD Program Solid Edge ST2 – ACAM Systemautomation GmbH
2007	Solid Edge Administrator und Upgrade Training V19 – PBU CAD-Systems GmbH
2006	ProEngineer WF2 Update Training – PTC Company
2004	Training for CAD-Program ProEngineer – PTC Company
2002	Update-Training CAD Program Solid Edge V12 – PBU CAD-Systems GmbH
2001	Training on methods for developing molded enclosures and sheet metal training – designing sheet metal cabinets - Company Bogner & Herac for Solid Edge
2000	Advanced 3D – Unigraphics Solid-Edge

Skills

Language	German, English B1-B2
Software	Solid-Edge, MS-Office, ProEngineer, NX, Teamcenter, SAP, MechWorks, CIM Database, Simcenter Flotherm, Finite Element Method Calculation Software
Expert Level	3D CAD mechanical design, Prototype manufacturing, Project management, Cooling Concepts, 3D Wire harnessing, Electrical cabinet design
Further Skills	Manufacturing, Automation, Simulation, Mechanical strength calculation, Programming, App-Development

Other

Driving License	Classes: A, B, C
Interests	Technic, Home Automation, Dogs, Travel
Internet	www.sadovsky.at