Jürgen Scheiber - Curriculum Vitae

Research • Development • Projects • Innovations
A committed IT professional with experience.

- 30 years of successful project and business management
- Successul handling of more than 70 demanding R&D and IT projects
- Mathematical algorithms for innovative solutions
- Wrote more than half a million lines of code in several programming languages
- Interdisciplinary solutions and international cooperations
- International awards

My Work Philosophy:

- Customer and solution oriented
- Creative and reliable
- Responsible and committed

My Qualities:

- High social competence, firm character, and leadership qualities
- An all-rounder with love and eye for detail

My team was in several cases the only contractor world-wide to offer a feasible solution

- Rescuing the Meteosat-6 satellite mission by real-time on-ground correction:
  ⇒ Software Glasses   🌐 Press coverage

- Unique real-time cloud motion forecast and predicted satellite images:
  🌐 CineSat Nowcasting
  🌐 **CineSat Product**: 🌐 Top 30 Highlights 🌐 Top 300 Features

Projects • Publications • References • Innovations
Skills & Range • Technical Know-How • Soft Skills • Contact

Education and Work Experience

1988-2025 Head of development & managing director, GEPARD, Vienna

2000-2025:　GEPARD, J. Scheiber KG; project & product manager, managing director
1988-2000:　GEPARD GmbH; founding member, project manager, managing director

- Research, system & software development, customer projects, product development
- Successful international projects for European Space Agency, EUMETSAT, European Space Operations Centre, national weather services, airport and military meteo services
- Successful projects and product development with industrial partners like Volkswagen, AMST, Philips, ... in the field of industrial vision systems, hardware-in-the-loop simulators, factory process optimization

Fields: Earth Observation, Remote Sensing, Meteorology,
Industrial Vision Systems, Pattern and Object Recognition,
Image Sequence and Motion Analysis, Object Tracking and Lifecycle-Analysis,
Real-time Cloud Motion Forecast, Artificial Intelligence,
Parallel Processing, Simulation, Research Tools

1986-1988 Project employment, Austrian Institute for Health & Environment

ÖBIG, Österreichisches Bundesinstitut für Gesundheitswesen und Umweltschutz
Austrian Institute for Health & Environment

- Research, development and implementation of a real-time immission simulator for urban development planning on a real-time parallel-computing system
- Forest damage classification from airborne and satellite images on a fast parallel computing system, including on-ground validation in the field

Fields: Remote Sensing, Pattern Recognition, Simulation, Parallel Processing

1984-1986 University assistant, Technical University Vienna

Institute for Numerical Mathematics

- Research and development of a steam power plant simulator for Simmering-Graz-Pauker
- Remote sensing research on processing of LIDAR and LANDSAT data

Fields: Simulation, Optimization, Numerical Mathematics, Remote Sensing

1983 Project employment, IHS, Austrian Institute for Advanced Studies

IHS, Institut für Höhere Studien

- Data analysis with advanced statistics using SPSS and other statistics tools
- Implementation, improvement, fine-tuning and evaluation of economic models

Fields: Statistics, Numerical Mathematics, Simulation

1980-1986 Dipl.-Ing. in Technical Mathematics, TU Vienna

Technical University Vienna

- Degree in Technical Mathematics with focus on computer sciences
- Partial studies of Technical Physics and Computer Sciences
- At the same time project employments to gain practical experiences

1979-1980 1 year military service

voluntary, in a sportive-adventurous unit, including officer training

1971-1979 High school, Realgymnasium Imst/Tirol, graduated with distinction

- 2 years participated in the Austrian Mathematics Olympiad

Skills & Range

Projects	From concept and offer to implementation, on-site installation, training, and qualified follow-up support
Development	Software and hardware design, programming, documentation and project management, in line with ESA Software Engineering Standards
Research	Development of new mathematical and AI algorithms for weather analysis and forecasting, interactive and automated satellite image analysis, pattern recognition, image sequence analysis and cloud motion forecasts, forest damage detection, industrial image processing
Team Leadership	Selection and training of employees, team motivation, coordination of international development projects
Product Development	Product management for high-tech solutions; from brainstorming, research, planning and prototype development, to the standard product, delivering stable and satisfactory performance, and maintenance contracts
Advertising	Content preparation for advertising documents, mailings, presentations, product manuals, wiki and web design
Marketing & Public Relations	Market analysis, product management, direct contact with customers and interested parties, exhibitor and speaker at trade fairs, congresses, and seminars
Sales	Acquisition, calculation, technical proposal submission, contract drafting, customer support; top customers like European Space Agency, EUMETSAT, European and US military services, various European weather services and research institutes, well-known industrial companies such as VW, Philips, VAI, AMST, among many others - see References
IT Admin	Responsible for the complete IT infrastructure for office, development & support, including web server and cloud, migration of several IT generations in mixed Windows and Linux environments
Documentation	Web- and Wiki-based product and research documentation and information system, based on open source DokuWiki, complemented by more than 40 enhanced and personally adapted PHP modules

Technical Know-How

Areas of Expertise	Technical mathematics, physics, IT, digital image processing, remote sensing, meteorology, artificial intelligence, parallel processing - combined to interdisciplinary, innovative solutions that have shown proven, stable, and reliable performance in daily practice and under heavy workloads
Platforms	PC and Linux workstations & servers, virtualization (KVM, Docker, VMware), experiences with Sun workstations, VAX, parallel processor networks, signal processors, industrial controls, and integrated image processing systems
Operating Systems	Several Linux distributions (RedHat, Ubuntu, Zorin OS, SuSE ...), Windows, Solaris, VMS, Irix, DOS, ... applications, configuration, programming, administration
Programming Languages	Java, JavaScript, HTML, PHP, Unix Shells, C, C ++, Fortran, Pascal, Cobol, Algol 60, BASIC, OCCAM, simulation languages, ...
Basic Knowledge	Networks & security, Cisco & ZyXEL network devices, databases, XML, ...
Applications	Core Linux applications & tools, MS-Office, LibreOffice, DokuWiki, Nextcloud, WordPerfect, Photoshop, Apache web server, Postfix/Kopano mail server, Architekt 3D Ultimate, TNG genealogy, ...
	Quick and safe handling of new devices and tools

Soft Skills

- Listening, systematic analysis, creative solutions
- Development of innovative concepts and processes, and their safe and timely implementation, even in uncharted technical territory
- Good communication skills
- Perfect understanding of customer requests and technical requirements
- Explain complicated issues in an understandable way and bringing them closer
- Fluent equally in both German and English
- Ability to work with international teams
- Conflict resolution and stress resistance
- Build and maintain a good basis of trust in all kinds of relationships

Hobbies

Sports: Swimming, skiing, biking, dancing, table tennis, Kung Fu, Tai Chi
Mental sports: Cracking the tough and challenging nuts in my job with creative and innovative approaches
Other: Crafts and gardening (should more accurately be listed under sports)

In my student years, there were also Taekwondo and paragliding, and I financed my own flat on the incomes of being a skiing teacher in Tirol and a dancing teacher in Vienna.
With growing business and project responsibilities, I skipped the more adventurous sports in favor of my customers and partners.

Contact

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