

Dipl.-Ing. Matthias Gruber

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Personal Details: 10/30 • Feldkirch • Austrian

Male • Married

R&D Director Profile

Highly analytical and technically minded leader with over 15 years' experience leading multi-million large-scale research projects from inception to completion to catalyse results within timely and budgetary constraints.

Demonstrated expertise introducing innovation processes, tools, and methods to uncover insights, unmet needs, and value creation opportunities. Appreciated for fostering positive governance and change that improved operational excellence, revenues, and cost savings. Strive to retain composure and make decisions in fast-paced, unpredictable, and stressful environments. Well-versed in overseeing hardware and software development as well as deep understanding of modern technologies, artificial intelligence, and application software. Expert at FDA/MRD regulatory compliance, product development, and streamlining processes. Multi-lingual in English, French, German, and Mandarin.

Highlights of Expertise

- Strategic Planning & Analysis
- Research & Development
- Project & Programme Management
- Team Building & Leadership
- Software Engineering & Management
- Scrum & Agile Methodologies
- Stakeholder Engagement & Management
- Process Development & Improvement
- Contract Negotiation & Management
- Technical Reports & Documentation
- Relationship Management
- Cross-functional Collaboration

Career Experience

Ivoclar Vivadent AG

Streamline and introduce new software process for multiple projects with sub-projects and internal/external partial organisation to achieve business goals.

Process Manager and Project Manager (Setup/introduction of global software engineering unit) (09/2018 to Present)

Provide strategic guidance and direction to corporate management regarding classic and agile processes, usability and process innovation. Oversee various engineering projects from concept to execution within timely and budgetary constraints, including 3D printing, medical scanners, middleware, IoT, and cloud. Actively participate in the introduction of portfolio and roadmap processes to enhance productivity and performance. Plan and conduct audit at potential stakeholders' sites for mitigating risk/error and capturing new opportunities. Utilise digital signatures, Jira, OpenText, Git, and Confluence for launching agiler processes. Analyse training needs of staff and deliver coaching to team for improving performance.

- Instigate medical software engineering process in compliance with FDA and MDR standards.
- Devise and implement new projects, such as CAD/CAM, intraoral scanner, and cloud.
- Negotiate contract and unify process through participation in the start-up of new nearshoring co-operation for introducing new global product development.
- Facilitate and monitor project management, agile transformation, regulatory compliance at subsidiaries.

Omicron Electronics GmbH

Led the introduction of agile methodologies in software and hardware teams under the umbrella of established SAFe process, while taking first step towards scrum for marketing and communication department.

Release Manager (11/2011 to 09/2018)

Setup CPC successor project with the budget of €10M to ensure the timely completion of project. Grow software team starting from 11 members to multi-disciplinary/multi-team environment of over 50 employees in seven groups through strategic planning and collaboration. Oversee scrum mastering of the PTM software team, controlling

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meeting, and co-ordinating releases to make effective decision in fast-paced, challenging, and unpredictable environment. Developed strong relationship with all levels of management.

- Introduced SCRUM and Scaled Agile Engineering framework to attain organisational objectives.
- Improved long-term projections of large agile projects to within 10% on a 3-year horizon.
- Successfully coordinated more than 15 timely software releases over all departments.
- Averted a product recall due to safety issues by organizing an emergency service release without negatively affecting adjacent projects.

V-Research GmbH

Served as guest lecturer at TU Wien, Institute for Scientific Computing and FH Nordwestschweiz.

Project Manager (01/2010 to 11/2011)

Supervised day-to-day operations of project for ensuring smooth running of work. Led and oversaw research projects regarding discrete simulation, semantics and text mining for potential stakeholders, including Liebherr-Werk Nenzing GmbH, Gebrüder Weiss GmbH, Walter Bösch GmbH & Co KG, and Erne Fittings GmbH to meet shared and individual goals.

- Initiated partnerships with Walter Bösch GmbH & Co KG, High Q Laser GmbH and Liebherr Nenzing GmbH
- Uncovered new opportunities in the pharmaceutical industry (Novartis Int. AG, F. Hoffmann-La Roche AG)

Profactor GmbH

Spearheaded customer and research projects, which valued at five-million euro for key partners, such as voestalpine, Austria Microsystems, Novartis, Roche, Techsoft, TIG, Leichtmetall Kompetenzzentrum Ranshofen, Atensor GmbH, and FFG by interacting with international European projects teams.

Researcher (10/2007 to 01/2010)

Held accountable for internal quality management in adherence with ISO 9000 and for quality assurance standards in line with international pharmaceutical projects standards. Researched and collaborated with the WU Wien, TU Wien, University of Innsbruck, and FH Hagenberg. Headed trainees and students for enhancing performance/skills.

- Played a key role in launching of new partnerships, projects and publishing scientific papers.
- Introduced discrete / hybrid simulation & optimization framework, reducing license costs and dependencies to 3rd parties.
- Interim management of the intelligent software systems department after unexpected leave of former head of department.
- Completion and release of the award winning “SEnSE” semantic framework.

ADDITIONAL EXPERIENCE

CEO ▪ BlueLogic Software Solutions

Project Manager ▪ Holzweg e-commerce

Education & Credentials

Private University für Gesundheitswissenschaften, 6060 Hall in Tirol, Eduard-Wallnöfer-Zentrum 1

Master's in Bioinformatics and Medical Informatics

Dissertation: “(Modular Delta Algorithms for the Practical Version Management of Documents (score 96 of 100). Published in 2010 by the VDM publishing company (ISBN 3639229282) and Various additional studies on semantic technologies and ontologies with the “Semantic Web Company” in Vienna.

Institute for Information Systems, 6060 Hall in Tirol, Eduard-Wallnöfer-Zentrum 1

Bachelor's in Medical Informatics

Dissertation: Evaluation of Usability of Software for Private Doctors with Examples of orblmmun and Research Assistant in the Projects Research Network and Wearable Computing (score 90 of 100).

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Professional Development: Software as Medical Device - Workshop with the BAH, 2019 | GDPR Training for Court-approved Experts, 2018 | Leadership within Flat Hierarchies, MCI, 2016 | PPL(A) – Pilot License (private pilot for single engine piston), 2016 | ICAO English Language Proficiency Level 6 (Expert), 2016 | UpSCALE Conference in Berlin (Upscaled Agile in Large Enterprises) with Jeff Sutherland, 2014 | Wertschätzende Konfrontation in der Führung (Appreciative confrontation in Leadership) with Herbert Salzmann, 2013 | Insight into .NET C# Memory Management for WPF based Applications, 2013 | Usability and Requirements Engineering with Thomas Geis, 2013 | Moderation and Presentation Training with Albert Thiele, 2012 | Advanced C# Skills, 2012 | Studies for a Doctor's Diploma: **Topic** "Discrete Simulation Based Optimisation". Published in 2016 by Südwestdeutscher Verlag für Hochschulschriften. (ISBN 978-3838152233), 2011 | Medical studies in medical physics, chemistry, biochemistry, biology, and anatomy at the Medical University of Innsbruck | Completed military service as high-mountain soldier

Certification: Court-certified expert for software development and software project management, 2017
Certified SCRUM Master, 2011

Technical Proficiencies: C#, Unity, Jira / JQL, SQL, JavaScript, Blender, Resolve, XR/VR, Java, VBA, Machine Learning

Award: Award at the European competition "Europa 1997 at school" in the topic of Computer Graphics.

Publications

Matthias Gruber (2015) Die Emergenz des Bewusstseins – Vorschlag für ein konsistentes System zur Definition von Daten, Information und Wissen sowie Intelligenz und Bewusstsein zum Zwecke der Beschreibung des menschlichen Verstandes, sowie einer Theorie zur Emergenz von Bewusstsein aus zellulären Systemen mit sechsschichtigen neuronalen Netzen. (German only) ISBN: 978-1-326-65207-4

Sylvia Gruber, Matthias Gruber (2014) Key Principles of Eight Pattern Wing Chun – Concepts, Forces and Skills. German Edition ISBN: 978-1-291-60120-6 (Spanish Edition: 978-1-291-82918-1)

Matthias Gruber (2011) Eight Pattern Wing Chun Kuen – Theory and formal exercises. ISBN: 978-14476-7964-6 (German Edition: 978-1-4477-5014-7, Spanish Edition: 978-1-291-64826-3)

Matthias Gruber (2010) A Generic Framework for Discrete Simulation Based Optimization, PhD thesis at the Technical University of Vienna, pending approval. ISBN: 978-3838152233

Matthias Gruber, Christian Hillbrand, Rainer Geschray (2011) Practical Token Retrieval and Indexing of CAD Documents via Binary Data, submitted to the 3rd IEEE International Symposium on Logistics and Industrial Informatics, pending approval.

Matthias Gruber, Michael Rinner, Thomas Löscher, Christian Almeder, Stefan Katzensteiner, Richard F. Hartl (2010) „Vorausschauende Produktionsregelung: Simulationsbasierte heuristische Optimierung“ (Anticipatory Production Control: Simulation Based Heuristic Optimization) in: Lothar März, W. Krug, O. Rose, G. Weigert (Eds.), Simulation und Optimierung in Produktion und Logistik, Springer, Berlin.

Markus Speckle, Matthias Gruber, Martin Saler (2009) „Evaluierung und Analyse integrationsfähiger Simulations Engines für die Entwicklung komplexer und detaillierter Simulationsmodelle“ (Evaluation and Analysis of Embeddable Simulation Engines for the Development of Complex and Detailed Simulation Models), Arbeitsgemeinschaft Simulation (ASIM) e.V., 20th Symposium for Simulation Techniques in Life Sciences.

Matthias Gruber (2007) „Modulare Delta Algorithmen für das praktische Versions management“ (Modular Delta Algorithms for Practical Version Management), master thesis, VDM Publishing House Ltd., ISBN 978-3-639-22928-8

Ernst A. Heinz, Kai S. Kunze, Matthias Gruber, David Bannach, Paul Lukowicz (2006) "Using Wearable Sensors for Real-time Recognition Tasks in Games of Martial Arts – An Initial Experiment", Proceedings of the 2nd IEEE Symposium on Computational Intelligence and Games (CIG) pp. 98 – 102, IEEE Press.