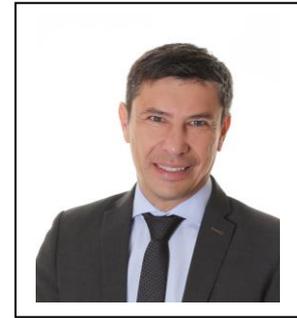


# Curriculum Vitae



## Personal Information:

DI (FH) Georg Kirov, MSc, IWE  
Reikersdorf 5, 4963 St. Peter am Hart  
AUSTRIA  
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## Education:

1976 – 1981 Elementary school Braunau - Ranshofen  
1981 – 1985 Secondary school Braunau - Ranshofen  
1985 – 1988 Traineeship restaurant Sankt Peter, Salzburg  
1999 Trainer examination  
2001 – 2003 University entrance exam  
2003 – 2007 University of applied sciences Wels  
Studies: Material and processing technology  
Diploma thesis: Grain refinement of magnesium and aluminum alloys  
2003 – 2007 Education as international welding engineer  
2010 – 2013 University of applied sciences Wels  
Studies: Metal and plastic technology  
Master thesis: Numerical implementation methods for structural bonded components  
2019 Qualification of Judicially Certified Expert Witness. Special field:  
57.11 Aluminum products for production and use of cast and wrought materials  
57.15 Other metal ware for production and use of cast and wrought materials for magnesium alloys  
57.35 Metal forming, metal compound for mechanical joining, self-pierce riveting and bounding of mechanical materials

## Professional Experience:

1985 – 1988 Traineeship as Restaurant expert  
1988 – 1998 Inland and abroad contracts in different restaurant and bar business  
1998 – 2003 Trainer at FAB-Triathlon for youth exchange program  
2005 – 2008 Freelancer at Light Metals Technologies Ranshofen for material engineering  
2008 - 2018 Scientific member at Light Metals Technologies Ranshofen for joining technologies  
2019 to today Company foundation of SAGOS-Engineering  
2019 Operating as international welding engineer  
2020 Operating as Judicially Certified Expert Witness

## **Personal Skills and**

### **Competences:**

Native Language	German
Foreign Languages	English
Social Skills and Competences	Experience in teamwork Ability of communicate Working in groups Ability to work under pressure Openness for continuing education Creativity
Organizational Skills and Competences	Independent working Multi-Year experience in project management (planning and leading of self-contained projects) Education in the field of value analysis, FMEA and project management Experience in the field of project management Tools SAP, PM-Smart, Salesforce, Doxis und Prevero Experience in the field creating of application for research funding at national and international level
Technical Skills and Competences	Excellent technical understanding Extensive technical education in the field of materials and his processing Extensive Know-How in the field of joining technic as welding, self-pierce riveting and adhesive bonding Extensive Know-How in the field of FEM: LS-DYNA focus implementation of jointing technic Hyperworks: Mesh generation with HyperMesh, topology optimization by OptiStruct and RADIOSS CAD CAM Know-How CATIA V5 and Autodesk Inventor
Interests/Hobbys	Sport (running, biking and skiing) Technical model-building

### Projects as Project Manager:

1. LKR in house „Transformation of numerical implementation models on joined connections“ 2011
2. LKR in house „Model application in crash simulation“ term 2012
3. LKR in house „Replacement element modelling for joining technic“ 2013
4. Format „Low-heat welding of light metal components“ 2010 to 2012
5. Format „Flat products of light metal for the use in vehicle drive chains“ 2010 to 2013
6. EFRE „Design and concept development of assembled light metal system components“ 2014
7. Comet „AdvAlue Advanced Aluminum Application within Eco-Transport“ 2010 to 2014
8. Comet „Advanced methods for optimized forming and joining process technologies for high strengths 7xxx alloys within automotive application“ 2014 to 2018
9. IWB „Creation of multi layer materials and multi layer design“ 2016 to 2018
10. IWB „Development of auxiliary joining component, additional materials and optimized joining processes“ 2016 to 2018

### Lectures:

OFI (Österreichisches Forschungsinstitut) „ Suitable construction for adhesive bonding“  
EAE-training, 2010 bis 2016

### Publications:

1. A. Schiffl, G. Kirov: „Grain fining of magnesium and aluminum alloys with SiC-Particle“; Gießerei-Rundschau, 56 (2009)
2. A. Schiffl, G. Kirov: „Grain fining of magnesium and aluminum alloys with SiC-Particle“; Gießerei, 04 (2010)
3. S. Ucsnik, G. Kirov: „New possibility for the connection of metal sheets and fibre reinforced plastics“; Materials Science Forum, 690 (2011)
4. J. Österreicher, G. Kirov, S. Gerstl, E. Mukeli, F. Grabner, M. Kumar: „Stabilization of 7xxx aluminium alloys“; Journal of Alloys and Compounds 740 (2018)
5. B. Milkereit, M. Österreich, P. Schuster, G. Kirov, E. Mukeli, O. Kessler, „Dissolution and Precipitation Behavior for Hot Forming of 7021 and 7075 Aluminum Alloys“, Metals 2018, 8, 531
6. P. A. Schuster, J.A. Österreicher, G. Kirov, C. Sommitsch, O. Kessler, E. Mukeli, „Characterization and Comparison of Process Chains for Producing Automotive Structural Parts from 7xxx Aluminum Sheets“, Metals 2019, 9, 305

### **Talks & Poster-Presentations (with Proceedings-Entry):**

1. M. Kumar, G. Kirov, F. Grabner, E. Mukeli, O. Kessler: „*Sheet forming processes for AW-7xxx alloys, Relevant process parameters*“; speech: Thermec 2016, Graz; 29.05.2016 - 03.06.2016; „*Thermec 2016*“, M. Kumar, G. Kirov et al. (Hrg.); (2016).
2. S. Ucsnik, G. Kirov, „*New possibility for the connection of metal sheets and fibre reinforced plastics*“; speech: 5th International Light Metal Technology Conference, Lüneburg; 19.07.2011 - 22.07.2011; in: „*5th International Light Metal Technology Conference*“, (2011).
3. G. Kirov, F. Grabner et al., „*Numerical and experimental investigating on adhesive joint parts for crash applications*“; speech: 13. LS-Dyna Forum, Bamberg; 06.10.2014 - 07.10.2014.

### **Talks & Poster-Presentations (without Proceedings-Entry):**

1. G. Kirov, „*Numerical investigation of rate dependent adhesive bounds*“; speech: 7. International adhesive conference, Wr. Neustadt; 24.10.2013.
2. G. Kirov, A. Birgmann: „*Heat assisted self-pierce riveting for high strength light metal alloys*“; speech: EUROMAT 2017, Thessaloniki; 17.09.2017 - 22.09.2017.
3. G. Kirov, A. Birgmann, „*Heat assisted self-pierce riveting*“ AIT Poster auf den LMT 2018 Linz

### **Diploma and Master thesis (own and supported):**

1. S. Kadam, „*Numerical and experimental assessment of point joining techniques by using LS-Dyna explicit finite element code*“; supported by: G. Kirov, J. Blum; Institut für Mechanik, Universität Duisburg, 2014; final exam: 2014.
2. G. Kirov, „*Grain fining of magnesium and aluminum alloys*“; supported by: A. Schiffli, D. Heim; FH Oberösterreich, 2007; final exam: 09/2007.
3. G. Kirov, „*Numerical implementation of structural bounded parts*“; supported by: Z. Khalil; FH Wels, 2013.
4. P. Schuster, „*Characterization and comparison of process chains for the production of automotive structural parts form EN AW-7xxx aluminum sheets*“; supported by: G. Kirov, C. Sommitsch; Graz University of Technology, 2018; final exam: 2018.

### **Bachelor thesis (supported):**

1. F. Grabner, „*Method development & numerical optimization of spaceframe structures for alternative vehicle concepts*“; supported by: G. Kirov, M. Steinbatz; FH Oberösterreich, Campus Wels, 2009.
2. C. Weinberger, „*Efficient simulation and reality true replication of the self-price riveting process with LS-Dyna*“; supported by: T. Reiter, G. Kirov; FH Wels, 2015.

### **Patents:**

G. Kirov, A. Birgmann, supported by Light Metals Technologies Ranshofen, „*Method and device for fastening at least two workpieces*“ Application for European patent December 2016, and application for international patent January 2018