

# CURRICULUM VITAE

Last updated: 27.04.2020

## PERSONAL INFORMATION

Name: Dipl.-Ing. (FH) Matthias Hartmann  
 Nationality: German  
 Date of birth: 27.10.1984

## EXPERIENCE

### Education and training

Dates (from – to)	Name and type of organisation	Principal subjects	Title awarded
10/05–10/10	University of Applied Science Landshut	Mechanical Engineering	Dipl.-Ing. (FH)
2004-2005	Staatliche Fachoberschule Landshut	Social studies (Sozialwesen)	

### Work experience

Dates (from – to)	Name and type of employer	Position held	Main activities and responsibilities
Since 01/2015	AIT, LKR	Deputy team leader	Projectwork, acquisition, team coordination
Since 03/2014	AIT, LKR	Scientist	Projectwork, acquisition
Since 11/2010	AIT, LKR	Junior Scientist	Project work, project management

### Language skills

Language	Reading / writing / verbal	Level (basic, good, excellent)
German	Mother tongue	Excellent
Englisch	Reading/writing/verbal	Good



## Technical skills (software tools, machinery, equipment, etc.)

Technical skill	Level (basic, good, excellent)
Simulation tools	
• Altair Hyperworks	Excellent
• LS-Dyna	Excellent
• ANSYS	Good
• Material characterization for material cards	Good
• Optimization (LS-Opt, etc.)	Basic
Cluster/Computer Administration	
• Windows OS	Excellent
• Linux OS (CentOS, Fedora, Ubuntu etc.)	Good
• Batch/Bash Scripting	Good
3D-Printing technology	
• Plastics (FDM)	Good
• Metal	Good
Extrusion/forming technology	Basic
Part design/CAD	Basic

## SCIENTIFIC STANDING

### Selected publications

Dates	Publication title
2019	EP3219401B1, Erteilt: Oktober 2019, <i>Stranggepresstes Profil</i> .  Z. Silvayeh, R. Vallant, Ch. Sommitsch, B. Göttinger, W. Karner, M. Hartmann, <i>Calculation of the Intermetallic Layer Thickness in Cold Metal Transfer Welding of Aluminium to Steel</i> , Materials, Vol. 12 (2019), Issue 1, 35.
	A. Schiffli, I. Schiffli, M. Hartmann, S. Brötz, J. Österreicher, W. Kühlein, <i>Analysis of Impact Factors on Crash Performance of High Strength 6082 Alloys Consider Extrudability and Small Modifications of the Profile Geometry</i> , materials today Proceedings, Proceedings 10 (2019); pp. 193-200.
2018	M. Hartmann, S. Brötz, A. Schiffli, J. Österreicher, <i>Verbesserte Crasheigenschaften hochfester Aluminium-Sicherheitsbauteile</i> , Lightweight Design, 11 (2018); pp. 30-35.
	AT 521774, Angemeldet: Nov. 2018, <i>Schweißzusatzwerkstoff, Elektrode hiermit und Verfahren zum Verschweißen eines Stahlbleches mit einem Aluminiumblech</i> .
2017	AT518347A1, Veröffentlicht: Sept. 2017, <i>Stranggepresstes Profil</i> .  Z. Silvayeh, R. Vallant, Ch. Sommitsch, B. Göttinger, W. Karner, M. Hartmann, <i>Influence of Filler Alloy Composition and Process Parameters on the Intermetallic Layer Thickness in Single-Sided</i>



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- Cold Metal Transfer Welding of Aluminium-Steel Blanks*, Metallurgical and Materials Transactions A, Vol. 48 (2017); pp. 5376-5386.
- B. Götzinger, W. Karner, M. Hartmann, Z. Silvayeh, *Optimiertes Verfahren für das Stahl-Aluminium-Schweißen*, Lightweight Design, 2 (2017); pp. 50-55.
- 2016 A.M.Horr, M. Hartmann, J. Kronsteiner, *Advanced Dynamic & Crash Simulation of Lightweight Profiles for Design of Roadside infrastructure*, Transportation Research Procedia, Vol. 14 (2016); pp. 4180-4189.
- B. Götzinger, M. Hartmann, *Einseitiges Stahl-Aluminium Schweißen und dessen Anforderungen an die Schweißdrahtentwicklung*, 9. Ranshofener Leichtmetalltage, 2016.
- 2014 M. Hartmann, K. Anders, *Determination of a simple geometry for the characterisation of the energy absorption behaviour of cast Aluminium*, Material Science Forum, Vols. 794-796 (2014); pp. 628-633.
- M. Hartmann, K. Anders, *Bestimmung der Energieabsorption von Al-Gusslegierungen*, 8. Ranshofener Leichtmetalltage, 2014.
- M. Hartmann, S. Jäger, M. Roschitz, A. Horr, *Development of a Unit Cell Model for structural metal sheets using \*CONSTRAINED\_MULTIPLE\_GLOBAL*, 13. LS-DYNA Forum Bamberg, 2014.
- 2013 M. Hartmann, M. Roschitz, Z. Khalil, *Enhanced Battery Pack for Electric Vehicle: Noise Reduction and Increased Stiffness*, Material Science Forum, Vol. 765 (2013); pp. 818-822.
- 2010 S. Diel, M. Hartmann, O. Huber, *Homogenisierungsmethoden für zellulare Verbundwerkstoffe im linear-elastischen Bereich*, ANSYS Conference & 28<sup>th</sup> CADFEM Users' Meeting, 2010.
- M. Hartmann, Entwicklung, *Validierung und Anwendung von FEM-Ersatzmodellen für zellulare Verbundwerkstoffe*, Diplomarbeit, 2010.

## Memberships and functions

Dates (from – to)	Organisation	Membership or function	Main activities and responsibilities
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