



# JULIA KNÖRLEIN

RESEARCH ENGINEER

Herzogenaurach, 25.07.2022

## CONTACT

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Wolfsleite 32  
91074 Herzogenaurach  
Germany

## DATE, PLACE OF BIRTH

28.11.1991, Ilmenau

## LANGUAGES

German ●●●●●

English ●●●●○

French ●●●○○

## EXPERTISE

Additive manufacturing / EBM

Material characterization

Microsoft Office, CorelDraw

EBM Control, Magics

## SOFT SKILLS

Effective time management

Willingness to learn

Critical thinking

Proactive

Team player

## HOBBIES

Skiing, playing Volleyball,  
travelling, spending time with  
family and friends

## EXTRA-CURRICULAR ACTIVITIES

Ski Instructor of German

Ski Association since 04/2010

## PROFILE

Experienced additive manufacturing engineer adept in bringing forth expertise in design, preparation, process and maintenance of electron beam melting. Experienced with the process development and material characterization. Able to effectively self-manage during independent projects, as well as collaborate as part of a team.

## EMPLOYMENT HISTORY

### RESEARCH ENGINEER ADDITIVE MANUFACTURING

Neue Materialien Fürth GmbH, Germany / 02/2017 - Present

Electron Beam Melting / EBM process development and optimization for different high temperature alloys, manufacturing of complex-shaped parts, and material characterization

### RESEARCH ASSOCIATE & MASTER THESIS ADDITIVE MANUFACTURING

Fraunhofer Institute for Material and Beam Technology IWS, Germany / 11/2015 - 12/2016

Laser Metal Deposition / LMD and part characterization via computer tomography

### RESEARCH ASSISTANT & BACHELOR THESIS POWDER TECHNOLOGY

Fraunhofer Institute for Mechanics of Materials IWM, Germany / 04/2014 - 08/2014

Development of a casting process for the production of magnets

## EDUCATION

### DOCTOR OF PHILOSOPHY

Friedrich-Alexander-Universität Erlangen-Nürnberg, Germany / 12/2017 - Present

Additive Manufacturing of titanium aluminid turbine blades with dual microstructure via electron beam melting

### BACHELOR & MASTER OF SCIENCE: grade 1.4 & 1.2

Technische Universität Bergakademie Freiberg, Germany / 10/2010 - 07/2016

Completed engineering degree of technology management with excellent final grades

Main focus: materials, processes and, engineering

### HIGH SCHOOL: grade 1.5

Goetheschule Ilmenau, Germany / 09/2002 - 05/2010

## INTERNSHIPS

### INDUSTRIAL INTERNSHIP: Quality management for medical devices

Bauerfeind AG, Germany / 07/2013 - 09/2013

### RESEARCH INTERNSHIP (DAAD): Development of ceramic dental implants

National University of Malaysia UKM, Malaysia / 07/2013 - 09/2013