

Timo Mueller
Master of Science

Email: 2timo_mueller@web.de
Date of birth: 03 November 1986
Nationality: German
Phone: +49 176 244 51500



Skills and Experiences

Technical Skills

Advanced skills in energy efficiency and controlling of refrigeration and air conditioning systems. Simulation of heat transfer, thermodynamics and fluidics. Manufacturing technologies and tooling.
Basic skills in mechanical design, computer aided design and mechanical simulation.

Computing

Advanced skills in Latex and Engineering Equation Solver (EES), Basic Skills in Scilab, Simulink, Dymola/Modelica and MS Office

Additional Skills

Languages

German: Native speaker
English: fluent

Teaching

Tutor for Thermodynamics and Heat-transfer for undergraduate students
Tutor for a student of the Malaysian exchange program at the University Karlsruhe in the classes electrical engines and elements of mechanical engineering

Employment

Since 11/2016

Universiti Malaysia Pahang , Pekan, Malaysia

Senior Lecturer:

- Preparing and conducting lectures in German language for the language level B1
- Coordination of the exams with external partners
- Preparing research in the fields of technical language and heat transfer
- Translation of technical documents like research proposals and publications

02/2015-04/2016

Institute of Materials & Processes of the University for Applied Science, Karlsruhe, Germany

Graduated Research Assistant:

- Design of simulation-tools for the calculation of vaporization
- Optimization of cutting parameter for a glas-fibre plastic
- Development of an innovative cooling system for cutting of high performance materials

07/2014-12/2015

School of Mechanical Engineering of the Universiti Sains Malaysia, Penang, Malaysia

Research Internship in the field manufacturing processes:

- Literature Research and theoretical exemption about the using of Carbon Dioxide as cryogenic coolant for cutting processes.

10/2012-04/2014

Institute of Materials & Processes of the University for Applied Science, Karlsruhe, Germany

Graduated Research Assistant:

- Design of simulation-tools for the calculation of vaporization
- Design of a flexible clamping system for complex milling parts
- Acquiring of innovative research and development projects

Name: Timo Mueller
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- 05/2012-08/2012 **Ray W. Herrick Laboratories at the School of Mechanical Engineering Purdue University, West Lafayette; United States of America**
Visiting Scholar:
- Design of simulation tools to determine the energy efficiency of Air Conditioner.
 - Installation of the measuring equipment on an Air Conditioner to validate simulation tools
- 05/2008-03/2009 **Hagsfelder Werkstätten der Lebenshilfe Karlsruhe e.V., Karlsruhe, Germany**
Community Service:
- Care and work with mentally disabled people in the Occupational Field.
 - Operating and setting of metal milling and turning machine.
 - Driving services
- 06/2006-08/2006 **Heinrich Gillet GmbH, Edenkoben, Germany**
Machine Operator
- Setting and operating horizontal presses.
 - Quality checks in the production line for particle filters.
- 09/2003-05/2006 **Heinrich Gillet GmbH, Edenkoben, Germany**
Dual Vocational Education and Training
- Trainings in basic and advanced skills in metal working, maintenance work, producing tools for presses
- Diploma: Werkzeugmechaniker für Stanz- und Umformtechnik (tool mechanic)

Education

- 05/2014-07/2014 **KBU College, Petaling Jaya, Malaysia**
 Language Course in Malay
- 03/2013-04/2016 **University for Applied Science, Karlsruhe, Germany**
 Master of Science in Mechanical Engineering
 Specialization: Energy Efficiency in Refrigeration, Air-Conditioning Engineering
 Graduation mark; 1.7 (B+)
- 10/2007-10/2012 **University for Applied Science, Karlsruhe, Germany**
 Bachelor of Engineering in Mechanical Engineering
 Specialization: Refrigeration, Air-Conditioning and Environmental Engineering
 Graduation mark; 1.8 (B+)
- 08/2006-06/2007 **Berufsoberschule für Technik, Neustadt an der Weinstraße, Germany**
 Grammar School
 Degree: Fachhochschulreife (high-school diploma)
 Graduation mark: 2.5 (B)
- 09/2003-05/2006 **Berufsschule Edenkoben, Germany**
 Vocational School: Werkzeugmechaniker Stanz- und Umformtechnik
 (tool mechanic)
 Graduation mark: 2.0 (B)

References

Prof. Dr.-Ing Michael Arnemann
 University for Applied Science, Karlsruhe
 Professor in Refrigeration, Air-Conditioning,
 Thermodynamic and Heat-Transfer
 Phone: +49 721/925 - 1842
 Email: michael.arnemann@hs-karlsruhe.de

Tobias Knipping
 University for Applied Science, Karlsruhe
 Project-Manager and PHD-candidate
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Publication

Timo Muller, Michael Kaufeld, Tunay Ozcan

Simulation eines Latenswärmespeichers für eine Dampfstrahlkälteanlage

Tagung des Deutschen Kalte und Klima technischen Verein, Studentenveranstaltung

Aachen 2011

Knipping, Tobias, Timo Muller, Michael Arnemann, Ulrich Hesse

INVESTIGATION OF R32 SPOT-EVAPORATORS.

International Institute of Refrigeration – conference Yokohama. 2015.